

# FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

## COMPLETION DATA:

Date Well Completed

Location Inspected

Bond released

State of Fee Land

OW WW TA

GW OS PA

## LOGS FILED

Driller's Log

Electric Logs (No. )

E I E-I GR GR-N Micro

Lat Mi-L Sonic Others

WELL NO. KEEL RANCH STATE #1-16  
API NO. 43-007-10753  
SEC. 16, T. 12S, R. 13W  
CARBON COUNTY, UTAH

NOTES FROM COVER ON OLD WELL FILE

THE LOCATION WAS CHECKED WITH TOPOG. SHEET AND APPEARS TO BE IN  
AGREEMENT WITH LETTER REGARDING UNORTHODOX WELL SITE. APPROVAL  
CAN THEREFORE BE GRANTED. PMB

*Copy 4 X B.*  
OIL AND GAS CONSERVATION COMMISSION  
NOTICE OF INTENTION TO DRILL

August 29

1963

Oil and Gas Conservation Commission:

In compliance with Rule C-4, notice is hereby given that it is our intention to commence the work of drilling well No. 1 which is located 1800 ft from (N) line and 1468 ft from (E) line of SW NE 1/4 of Sec 16, Twp 12S, R 13E, S.L.B.&M., Minnie Head area (Meridian) (Field or Unit)

Carbon (County) LAND: Fee and Patented. ( ) Name of Owner  
State: (XX) Address  
Lease No. ML 10889  
Public Domain. ( )  
Lease No. Phone

Is Location a regular or exception to spacing rule? Exception as surety bond been filed? Yes

With whom? State? Area in drilling Unit Lease Elevation of ground above sea level is 6755 ft. All depth measurements taken from top of kelly bushing (Derrick Floor, Rotary Table) which is to follow ft above ground. Type of tools to be used rotary or Kelley Bushing)

Proposed Drilling depth 8500 ft. Objective formation Wasatch zones & lower into Emery formation.

## PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight Per Foot	Grade and Type	Amount Ft. In.	Top	Bottom	Cementing depths
13-3/8	48	H-40 ST&C	500'			Cement casing to surface
5-1/2	17	N-80 LT&C	8500'	0	8500'	From landing pt. to a point well above producing zone, if encountered.

REMARKS (use back of form for additional remarks or info)

This will be a wildcat well. An exception to the spacing rule will be filed separately with your office by Mr. L. W. Folsom, Manager, Exploration Division, Salt Lake City, Utah.

## AFFIDAVIT

I hereby certify under the penalty of perjury, that the information contained and statements herein made are to the best of my knowledge and belief, True, correct and complete.

Approved \_\_\_\_\_ Date \_\_\_\_\_ 19

By B. W. Croft  
B. W. Croft

By \_\_\_\_\_

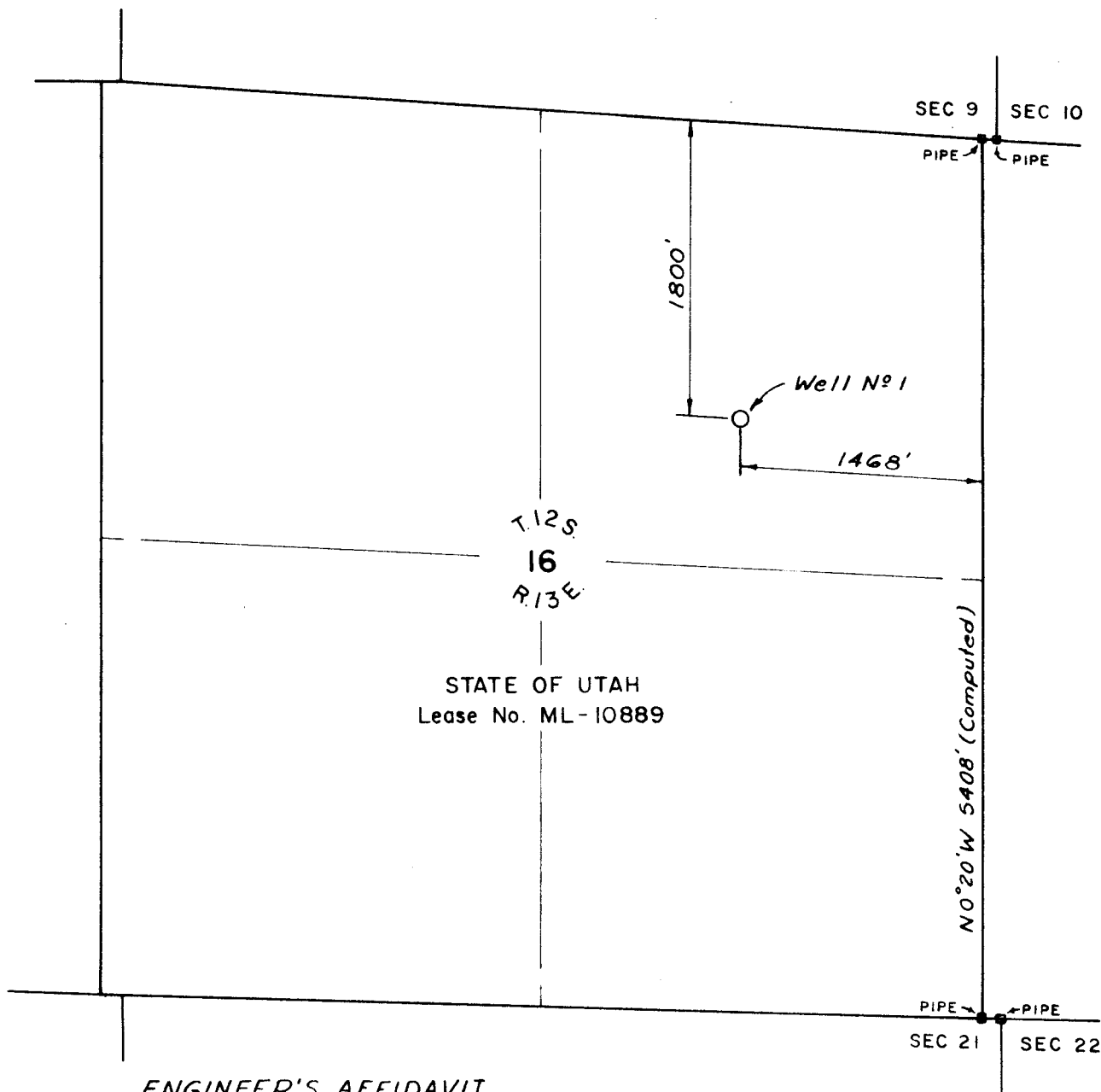
Gen'l. Mg'r. Prod. & PL Divisions  
(Title or Position)

Title \_\_\_\_\_

MOUNTAIN FUEL SUPPLY COMPANY  
(Company or Operator)address P. O. Box 1129, Rock Springs,Wyoming.

## INSTRUCTIONS:

1. Complete this form in Duplicate and mail, both copies to the Oil and Gas Conservation Commission, Rm 105, Capitol Bldg., Salt Lake City 14, Utah.



### ENGINEER'S AFFIDAVIT

State of Wyoming }  
County of Sweetwater } s.s.

I, R.C. Day, of Rock Springs Wyoming, hereby certify that this map was made from notes taken during an actual survey made under my direction by A.L. Nelson on August 12 to 15, 1963; and that it correctly represents the location thereon with section measurements based on the official survey plat of Section 16, T.12 S., R.13 E. and the resurvey plat of adjoining Sections 9 & 21, T.12 S., R.13 E.

*R.C. Day*  
Engineer

Utah Registration No 1295

## LOCATION DATA

WELL - Well N<sup>o</sup> 1

FIELD - Minnie Maud

**LOCATION -**

1800' From North Line

1468' From East Line

NE SW NE Sec. 16, T. 12 S., R. 13 E.

Carbon County, Utah

**ELEVATION -**

6755 Ground (By Stadia Levels from USC & G B.M. on

Sec. Corner - Sec. 13, 24, 18 & 19, T. 12 S., R. 12-13 E.

**SURVEYED BY -**

A.L. Nelson August 12-15, 1963

**DATE OF REPORT -**

August 16, 1963

**REMARKS -**

Well Elevation for Ground as Graded  
Weather - Hot w/ Afternoon Showers

REVISIONS DESCRIPTION	DATE	BY	MOUNTAIN FUEL SUPPLY CO. ROCK SPRINGS, WYO.	
			WELL LOCATION	
			MINNIE MAUD WELL N <sup>o</sup> 1	
			NE SW NE SEC. 16, T. 12 S., R. 13 E.	
			CARBON COUNTY, UTAH	
			DRAWN: 8/16/63 GeL	SCALE: 1" = 1000'
			CHECKED <i>Rum</i>	DRWG. NO. <b>M-7459</b>
			APPROVED <i>E</i>	

**\*\* FILE NOTATIONS \*\***

DATE: March 23 1981 Re-entry  
OPERATOR: Trigg Drilling Company, Inc.  
WELL NO: Keel Ranch Unit #1-16  
Location: Sec. 16 T. 12S R. 13E County: Carbon

File Prepared: ☒

Entered on N.I.D: ☐

Card Indexed: ☐

Completion Sheet: ☒

API Number 43-007-~~10753~~ 10753

**CHECKED BY:**

Petroleum Engineer: M. J. Munder 3-30-81

Director: \_\_\_\_\_

Administrative Aide: In Keel Ranch Unit / OK on Ind. prop. all formations covered

**APPROVAL LETTER:**

Bond Required: ☐

Survey Plat Required: ☐

Order No. \_\_\_\_\_

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation St.

Plotted on Map ☐

Hot Line ☒

Approval Letter Written ☒

P.I. ☒

# MOUNTAIN FUEL SUPPLY COMPANY

180 EAST FIRST SOUTH STREET  
TELEPHONE DAVIS 8-8315

SALT LAKE CITY 10, UTAH

L. W. FOLSOM  
MANAGER, EXPLORATION DIVISION

August 29, 1963

Utah Oil and Gas Conservation Commission  
310 Newhouse Building  
10 Exchange Place  
Salt Lake City, Utah

Attention: Mr. Paul W. Burchell

Gentlemen:

Utah State Well No. 1  
Minnie Maud Area  
Carbon County, Utah

Mountain Fuel Supply Company proposes to drill a well in the  $SW\frac{1}{4}NE\frac{1}{4}$  of Section 16, Township 12 South, Range 13 East, Carbon County, Utah. You will in the near future receive our Notice of Intention to Drill.

The well as located at 1800 feet south of the north line and 1468 feet west of the east line does not meet the requirements as set forth in the State of Utah Oil and Gas Conservation Commission General Rules and Regulations under Rule C-3(b). The following reasons are given in request of your approval for an exception to these requirements and the necessity for an unorthodox location under Rule C-3(c).

The well will be drilled on Utah Lease ML-10889. The lessee of record on this lease is The British-American Oil Producing Company and comprises the  $N\frac{1}{2}$  and the  $SW\frac{1}{4}$  and the  $N\frac{1}{2}$  of the  $SE\frac{1}{4}$  of said section. Therefore, the ownership of all oil and gas leases within a radius of 660 feet of the proposed location is common with the ownership under the proposed location.

Topographically, the area is extremely rugged. Immediately adjacent to the drill site location is a steep dry wash entering Nine Mile Canyon from the north. Both the east and west slopes of the dry wash are extremely steep. The location is in the mouth of the wash just north of the main Nine Mile Canyon road, Utah State Highway 53. Immediately west of the location is a ranch corral. To move the location sufficiently west and south to be within the limits prescribed in Rule C-3(b) would place the location in an impossible position on the highway and/or irrigation ditch. To move the location sufficiently north to place it in the  $NW\frac{1}{4}NE\frac{1}{4}$  or the  $NE\frac{1}{4}NE\frac{1}{4}$  of Section 16 would be prohibitively expensive because of additional road building required.

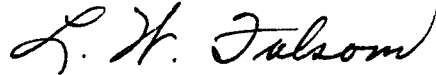
Utah Oil and Gas  
Conservation Commission

- 2 -

August 29, 1963

The location of our proposed well is, therefore, extremely limited, and we request your approval for an exception to the requirements of Rule C-3(b) for the reasons given.

Very truly yours,

A handwritten signature in cursive script, reading "L. W. Folsom".

L. W. Folsom

LWF:dgk

cc: Mr. D. F. Russell  
United States Geological Survey  
416 Empire Building  
Salt Lake City, Utah



August 30, 1963

Mountain Fuel Supply Company  
P. O. Box 1129  
Rock Springs, Wyoming

Attention: B. W. Croft, General Manager Prod. & PL Div.

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. State #1, which is to be located 1800 feet from the north line and 1468 feet from the east line of Section 16, Township 12 South, Range 13 East, SLBM, Carbon County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer  
Office: DA 8-5771 or DA 8-5772  
Home: CR 7-2890  
Salt Lake City, Utah

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Enclosed please find Form OGCC-8-X, which is to be

Mountain Fuel Supply Company

-2-

August 30, 1963

completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Please have the enclosed "Minimum Safety Requirements" notice posted in a conspicuous place on the drilling location.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
EXECUTIVE DIRECTOR

CBF:cnp

cc: State Land Board  
Salt Lake City, Utah

H. L. Coonts, Petroleum Engineer  
Oil & Gas Conservation Commission  
Moab, Utah



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Keel Ranch Area**

(Formerly Minnie Maud)

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Carbon** Field **Keel Ranch Area**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **OCT** 1963, 19.....

Agent's address **P. O. Box 989** Company **MOUNTAIN FUEL SUPPLY COMPANY**

**SALT LAKE CITY, UTAH**

Phone **328-8315** Signed **F. K. Neely**  
Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down cause; date and result of test for gasoline content of gas)
<b>NE, SW NE 16</b>	<b>12</b>	<b>13</b>	<b>1</b>							<b>Spudded 9/20/63 Oct. 31, 1963 Drilling at 4400'</b>

NOTE.—There were..... runs or sales of oil; ..... M cu. ft. of gas sold;

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(SUBMIT IN DUPLICATE)

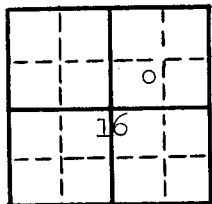
LAND:

0112  
2

## STATE OF UTAH

## OIL &amp; GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

Fee and Patented.....☐State .....☒

Lease No. ML-10889.....

Public Domain .....☐

Lease No. ....

Indian .....☐

Lease No. ....

## SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....	Subsequent Report of Water Shut-off.....	
Notice of Intention to Change Plans.....	Subsequent Report of Altering Casing.....	
Notice of Intention to Redrill or Repair.....	Subsequent Report of Redrilling or Repair.....	
Notice of Intention to Pull or Alter Casing.....	Supplementary Well History.....	X
Notice of Intention to Abandon Well.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Minnie Maud Utah State Well No. 1 ..... October 7, 19 63

Well No. 1 is located 1800 ft. from {N} line and 1468 ft. from {E} line of Sec. 16

NE SW NE sec. 16

(¼ Sec. and Sec. No.)

12S

(Twp.)

13E

(Range)

S. L. B. &amp; M.

(Meridian)

Minnie Maud

(Field)

Carbon

(County or Subdivision)

Utah

(State or Territory)

The elevation of the ~~terrisk floor~~ ground above sea level is 6755 feet.

A drilling and plugging bond has been filed with .....

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

The subject well was spudded on September 30, 1963, by Brinkerhoff Drilling Company, contractor. At a depth of 610', a surface string of 13-3/8" OD, 48#, H-40, 8rd thd ST&C casing, measuring 521.14' net, and 526.09' gross, was run into the well and landed at 534.49' KBM. The casing was cemented with 475 sacks cement. Good mud returns during cementing operations and about 1 barrels of mud-cut cement slurry returned to surface. After 24 hours WOC, checked cement top and found good cement in bottom of cellar. Pressure tested casing and BOP's to 500 psi each for 15 minutes; pressure tests held good.

Presently preparing to drill out below surface casing.

At depths of 404' to 476' in the Green River Tongue and from 580' to 595' in the Wasatch formation, formation water was encountered.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company

Address P. O. Box 1129

Rock Springs, Wyoming

By B.W. Graft

Title General Manager, Prod. &amp; Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

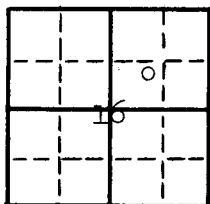
(SUBMIT IN DUPLICATE)

LAND:

STATE OF UTAH

## OIL &amp; GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH



Fee and Patented ☐  
 State ☒ **XX**  
 Lease No. ML 10889  
 Public Domain ☐  
 Lease No. \_\_\_\_\_  
 Indian ☐  
 Lease No. \_\_\_\_\_

## SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....	Subsequent Report of Water Shut-off.....	
Notice of Intention to Change Plans.....	Subsequent Report of Altering Casing.....	
Notice of Intention to Redrill or Repair.....	Subsequent Report of Redrilling or Repair.....	
Notice of Intention to Pull or Alter Casing.....	Supplementary Well History.....	<b>XX</b>
Notice of Intention to Abandon Well.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Minnie Maud Utah State Well No. 1 ..... October 14, 1963

Well No. 1 is located 1800 ft. from ~~W~~<sup>(N)</sup> line and 1468 ft. from ~~W~~<sup>(E)</sup> line of Sec. 16

NE SW NE sec. 16

(¼ Sec. and Sec. No.)

12S

(Twp.)

13E

(Range)

S. L. B. &amp; M.

(Meridian)

Minnie Maud area

(Field)

Carbon

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with State of Utah

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

Pressure tested BOP's and 13-3/8" OD surface casing to 500 psig each for 15 minutes; pressure tested satisfactorily. Resumed drilling. Between depths of 1180' and 1310', a 2" stream of fresh water was encountered at an estimated rate of 10 BPH. The mud weight was increased to 10.0 ppg and the flow of formation water was stopped.

Presently drilling at a depth of 2050'.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company

Address P. O. Box 1129

By

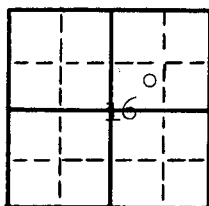
B. W. Croft

Title General Manager, Prod. &amp; P. L. Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

(SUBMIT IN DUPLICATE)

LAND:



**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 SALT LAKE CITY, UTAH

Fee and Patented.....☐  
 State Utah.....☒  
 Lease No. ML 10889.....  
 Public Domain.....☐  
 Lease No. ....  
 Indian.....☐  
 Lease No. ....

## SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill..... Notice of Intention to Change Plans..... Notice of Intention to Redrill or Repair..... Notice of Intention to Pull or Alter Casing..... Notice of Intention to Abandon Well..... ..... .....	Subsequent Report of Water Shut-off..... Subsequent Report of Altering Casing..... Subsequent Report of Redrilling or Repair..... Supplementary Well History..... ..... .....
--	--

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Utah State Well No. 1, Minnie Maud area ..... October 22, 19 63

Well No. 1 is located 1800 ft. from (N) line and 1468 ft. from (E) line of Sec. 16  
NE Sw NE sec. 16 ..... 12S ..... 13E ..... S. I. B. & M.  
(¼ Sec. and Sec. No.) ..... (Twp.) ..... (Range) ..... (Meridian)  
Minnie Maud area ..... Carbon ..... Utah  
(Field) ..... (County or Subdivision) ..... (State or Territory)

 The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with .....

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

Depth 3157', drilling.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

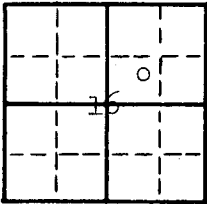
 Company Mountain Fuel Supply Company

 Address P. O. Box 1129 By B.W. Craft
Rock Springs, Wyoming Title General Manager, Producing and Pipeline

Divisions.

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
SALT LAKE CITY, UTAH



Fee and Patented.....☐  
State .....☒  
Lease No. ML 10889  
Public Domain .....☐  
Lease No. ....  
Indian .....☐  
Lease No. ....

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....		Subsequent Report of Water Shut-off.....	
Notice of Intention to Change Plans.....		Subsequent Report of Altering Casing.....	
Notice of Intention to Redrill or Repair.....		Subsequent Report of Redrilling or Repair.....	
Notice of Intention to Pull or Alter Casing.....		Supplementary Well History.....	<input checked="" type="checkbox"/>
Notice of Intention to Abandon Well.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Keel Ranch Utah State Well No. 1 ..... October 28, 1963  
(formerly Minnie Maud Utah State Well No. 1)  
Well No. 1 is located 1800 ft. from ~~SW~~<sup>N</sup> line and 1468 ft. from ~~SW~~<sup>E</sup> line of Sec. 16  
NE SW NE sec. 16 ..... 12S ..... 13E ..... S. L. B. & M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Keel Ranch (Formerly Minnie Maud) Carbon Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6766.60' feet.

A drilling and plugging bond has been filed with --

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

The subject well is drilling at a depth of 3973 feet.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company  
Address P. O. Box 1129  
Rock Springs, Wyoming  
By B. W. Croft  
Title General Manager, Producing and Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



10  
PWB  
October 31, 1963

MEMO FOR FILING:

Re: Mountain Fuel Supply Company  
Keel Ranch State #1  
Sec. 16, T. 12 S. R. 13 E.,  
Carbon County, Utah

On October 30, 1963, it was observed while visiting the above mentioned location that the operator was drilling at 4200' in the North Horn member of the Wasatch Formation. Significant fresh water flows were encountered and subsequently shut-off with over 500' of surface casing. At the present time no further shows of gas or water have been found. This well is a proposed 8500' test for an Emery Sandstone pinch-out. It is possible that additional drilling may be made to test the deeper Ferron Formation.

A safety inspection was made and found satisfactory. The blowout preventor was tested and found in good working condition.

It should be noted that this well is situated in an unorthodox location and ~~should be~~ moved 20' south and 420' west. After checking the authenticity of this, it was discovered that an orthodox location could easily be staked.

could have been

PAUL W. BURCHELL  
CHIEF PETROLEUM ENGINEER

PWB:kgw

cc: Don Russell, Dist. Eng.,  
U. S. Geological Survey  
Salt Lake City, Utah

11.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Keel Ranch Area**  
**(Formerly Minnie Maud)**

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Carbon** Field **Keel Ranch Area**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **DEC** **1963**, 19.....

Agent's address **P. O. Box 989** Company **MOUNTAIN FUEL SUPPLY COMPANY**

**SALT LAKE CITY, UTAH**

Signed **F. L. Neely**

Phone **328-8315**

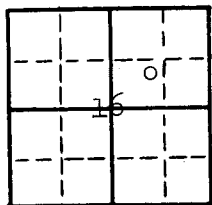
Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND ¼ OF ¼	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down cause; date and result of test for gasoline content of gas)
<b>NE, SW, NE 16</b>	<b>12</b>	<b>13</b>	<b>1</b>							<b>Spudded 9/30/63 Dec. 31, 1963 Drilling at 8294'</b>

NOTE.—There were..... runs or sales of oil; ..... M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
SALT LAKE CITY, UTAH

Fee and Patented.....☐  
State .....☒  
Lease No. ....ML 10889  
Public Domain .....☐  
Lease No. ....  
Indian .....☐  
Lease No. ....

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....		Subsequent Report of Water Shut-off.....	
Notice of Intention to Change Plans.....		Subsequent Report of Altering Casing.....	
Notice of Intention to Redrill or Repair.....		Subsequent Report of Redrilling or Repair.....	
Notice of Intention to Pull or Alter Casing.....		Supplementary Well History.....	XX
Notice of Intention to Abandon Well.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Keel Ranch Utah State Well No. 1 ..... November 4, 19 63  
Well No. 1 is located 1800 ft. from ~~SW~~ <sup>{N}</sup> line and 1468 ft. from ~~SW~~ <sup>{E}</sup> line of Sec. 16  
NE SW NE sec. 16 ..... 12S ..... 13E ..... S. L. B. & M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Keel Ranch area ..... Carbon ..... Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with -

DETAILS OF WORK

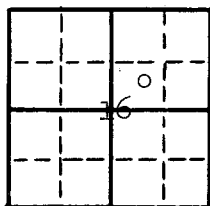
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

The subject well is drilling at a depth of 4623' in the Price River formation, top of which was picked from sample at 4360'.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company  
Address P. O. Box 1129 ..... By B. W. Craft  
Rock Springs, Wyoming ..... Title General Manager, Producing & Pipeline  
Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
SALT LAKE CITY, UTAH

Fee and Patented.....☐  
State Utah.....☒  
Lease No. ML 10889  
Public Domain.....☐  
Lease No. ....  
Indian.....☐  
Lease No. ....

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....	Subsequent Report of Water Shut-off.....	
Notice of Intention to Change Plans.....	Subsequent Report of Altering Casing.....	
Notice of Intention to Redrill or Repair.....	Subsequent Report of Redrilling or Repair.....	
Notice of Intention to Pull or Alter Casing.....	Supplementary Well History.....	X
Notice of Intention to Abandon Well.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Keel Ranch Utah State No. 1 November 27, 1963

Well No. 1 is located 1800 ft. from ~~IS~~<sup>N</sup> line and 1468 ft. from ~~WX~~<sup>E</sup> line of Sec. 16  
NE SW NE sec. 16 12S 13E S. L. B. & M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Keel Ranch area Carbon Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with Utah

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

Depth 5832', drilling.

DST #2: 5716'-5744', Blackhawk formation, IO 1/2 hour, ISI 1/2 hour, Fo 1 hour, FSI 1/2 hour, fair blow on initial opening; weak blow on final opening, no gas to surface. Recovered 180' mud. IHP 3042 psi, ISIP 426 psi, IOFP's 36-54 psi, FOFP's 54-72 psi, FSIP 223 psi, FHP 3042 psi.

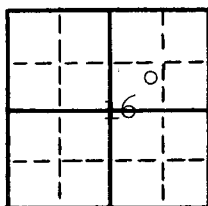
I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company

Address P. O. Box 1129 By B. W. Coft

Rock Springs, Wyoming Title General Manager, Producing and Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
SALT LAKE CITY, UTAH

Fee and Patented.....☐  
State .....☒  
Lease No. ....ML 10889  
Public Domain .....☐  
Lease No. ....  
Indian .....☐  
Lease No. ....

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....	Subsequent Report of Water Shut-off.....
Notice of Intention to Change Plans.....	Subsequent Report of Altering Casing.....
Notice of Intention to Redrill or Repair.....	Subsequent Report of Redrilling or Repair.....
Notice of Intention to Pull or Alter Casing.....	Supplementary Well History.....
Notice of Intention to Abandon Well.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Keel Ranch Area ..... November 18, 1963  
Well No. Utah State #1 is located 1800 ft. from {N} line and 1468 ft. from {E} line of Sec. 16  
NE SW NE sec. 16 ..... 12S ..... 13E ..... S. I. B. & M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Keel Ranch area ..... Carbon ..... Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with State-wide bond.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

The subject well is drilling at a depth of 5505'. No tests or cores were taken during the past week.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company

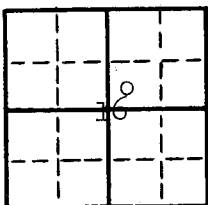
Address P. O. Box 1129 By B. W. Croft

Rock Springs, Wyoming Title General Manager, Producing and Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

(SUBMIT IN DUPLICATE)

LAND:



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
SALT LAKE CITY, UTAH

Fee and Patented.....☐  
 State .....Utah.....☒  
 Lease No. ML 10889.....  
 Public Domain .....☐  
 Lease No. ....  
 Indian .....☐  
 Lease No. ....

## SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill..... Notice of Intention to Change Plans..... Notice of Intention to Redrill or Repair..... Notice of Intention to Pull or Alter Casing..... Notice of Intention to Abandon Well..... .....	Subsequent Report of Water Shut-off..... Subsequent Report of Altering Casing..... Subsequent Report of Redrilling or Repair..... Supplementary Well History..... ..... .....
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Keel Ranch Utah State Well No. 1 ..... December 9 ..... 1963

Well No. 1 is located 1800 ft. from {N} line and 1468 ft. from {E} line of Sec. 16

NE SW NE sec. 16 ..... 12S ..... 13E ..... S. I. B. & M.  
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Keel Ranch area ..... Carbon ..... Utah .....  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with Utah.

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

Depth 6288', drilling.

DST #3: 6205'-6224', Star Point formation, IO ½ hour, ISI ½ hour, FO 1 hour, FSI ½ hour, strong blow throughout both openings, no gas to surface. Recovered 30' mud. IHP 3162 psi, ISIP 507 psi, IOFP's 20-20 psi, FPF's 20-20 psi, FSIP 446 psi, FHP 3162 psi.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company

Address P. O. Box 1129

Rock Springs, Wyoming

By B. W. Craft

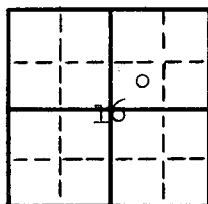
Title General Manager, Producing and Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



(SUBMIT IN DUPLICATE)

LAND:



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
SALT LAKE CITY, UTAH

Fee and Patented.....☐  
State Utah.....☒  
Lease No. ML 10889.....  
Public Domain.....☐  
Lease No. ....  
Indian.....☐  
Lease No. ....

## SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill..... Notice of Intention to Change Plans..... Notice of Intention to Redrill or Repair..... Notice of Intention to Pull or Alter Casing..... Notice of Intention to Abandon Well..... ..... .....	Subsequent Report of Water Shut-off..... Subsequent Report of Altering Casing..... Subsequent Report of Redrilling or Repair..... Supplementary Well History..... ..... .....
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Keel Ranch Utah State Well No. 1 ..... December 3 ..... 1963

Well No. 1 is located 1800 ft. from (N) line and 1468 ft. from (E) line of Sec. 16

NE SW NE sec. 16  
(¼ Sec. and Sec. No.)

12S  
(Twp.)

13E  
(Range)

S. L. & B. M.  
(Meridian)

Keel Ranch area  
(Field)

Carbon  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with Utah

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

The subject well is drilling at a depth of 6050'.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company

Address P. O. Box 1129

Rock Springs, Wyoming

By B. W. Goff

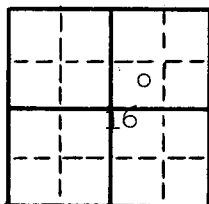
Title Gen'l. Mg'r., Producing & Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



(SUBMIT IN DUPLICATE)

LAND:



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
SALT LAKE CITY, UTAH

Fee and Patented ☐  
State Utah ☒  
Lease No. ML 10889  
Public Domain ☐  
Lease No. \_\_\_\_\_  
Indian ☐  
Lease No. \_\_\_\_\_

## SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill..... Notice of Intention to Change Plans..... Notice of Intention to Redrill or Repair..... Notice of Intention to Pull or Alter Casing..... Notice of Intention to Abandon Well..... .....	Subsequent Report of Water Shut-off..... Subsequent Report of Altering Casing..... Subsequent Report of Redrilling or Repair..... Supplementary Well History..... ..... .....
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Keel Ranch Utah State No. 1 ..... December 16, 19 63

Well No. 1 is located 1800 ft. from {N} line and 1468 ft. from {E} line of Sec. 16

NE SW NE sec. 16 12S 13E S. L. B. & M.  
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Keel Ranch area Carbon Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with \_\_\_\_\_

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

The subject well is drilling at a depth of 6762' in the Mancos formation.

DST #5: 6340'-6490', Star Point, IO ½ hour, ISI ½ hour, FO 1½ hours, FSI 1 hour, strong blow through initial opening, no gas up. On final opening, gas up in 35 minutes; 45 minutes gauged 5.32 Mcf, 60 and 75 minutes 6.33 Mcf, and 90 minutes 5.32 Mcf. Recovered 267' slightly gas cut mud. IHP 3257 psi, ISIP 1129 psi, IOFP's 55-73 psi, FOFP's 91-146 psi, FSIP 1238 psi, FHP 3239 psi.

DST #6: 6570'-6631', Mancos, IO ½ hour, ISI ½ hour, FO 1½ hours, FSI 1½ hours, strong initial blow, no gas up. On final opening, gas up in 15 minutes at 5.26 Mcf, decreasing to 4.38 Mcf at end of test. Recovered 90' gas cut mud. IHP 3450 psi, ISIP 267 psi, IOFP's 57-76 psi, FOFP's 57-57 psi, FSIP 229 psi, FHP 3450 psi.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company

Address P. O. Box 1129 By B.W. Craft

Rock Springs, Wyoming Title General Manager, Producing and Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

## SUNDRY NOTICES &amp; REPORTS

SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

STATE OF UTAH

OIL &amp; GAS CONSERVATION COMMISSION

~~APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK~~

## 1a. TYPE OF WORK

DRILL ☐ SUPPLEMENTARY ☐ DEEPEN ☐ PLUG BACK ☐

## b. TYPE OF WELL

WELL HISTORY.

OIL WELL ☐GAS WELL ☐

OTHER

SINGLE ZONE ☐MULTIPLE ZONE ☐

## 2. NAME OF OPERATOR

Mountain Fuel Supply Company

## 3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

NE SW NE sec. 16-12S-13E., Carbon County, Utah

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. line, if any)

1800 FNL, 1468'

FEL sec. 16

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

## 16. NO. OF ACRES IN LEASE

## 19. PROPOSED DEPTH

## 17. NO. OF ACRES ASSIGNED TO THIS WELL

## 20. ROTARY OR CABLE TOOLS

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

Derrick floor 6766.60'

## 22. APPROX. DATE WORK WILL START\*

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

The subject well is drilling at a depth of 7545'.

DST #7: 7480'-7545', Emery (?), IO  $\frac{1}{2}$  hour, ISI  $\frac{1}{2}$  hour, FO 1 hour, FSI  $\frac{1}{2}$  hour, strong initial blow; weak final blow, no gas to surface. Recovered 30' mud. IHP 4109 psi, ISIP 113 psi, IOFP's 37-37 psi, FOFP's 37-37 psi, FSIP 75 psi, FHP 4109 psi.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

B.W. Croft

General Manager, Producing and Pipeline Divisions

DATE Dec. 23, 1963

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

### SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Wildcat</u></p> <p>2. NAME OF OPERATOR <u>Mountain Fuel Supply Company</u></p> <p>3. ADDRESS OF OPERATOR <u>P. O. Box 1129, Rock Springs, Wyoming</u></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>NE SW NE, 1800' FNL, 1468' FEL sec. 16.</u></p>		<p>5. LEASE DESIGNATION AND SERIAL NO. <u>ML 10889</u></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME <u>Lease</u></p> <p>8. FARM OR LEASE NAME <u>Keel Ranch area</u></p> <p>9. WELL NO. <u>Utah State No. 1</u></p> <p>10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>16-12S-13E</u></p>	
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>6768.35' KBM</u></p>	<p>12. COUNTY OR PARISH <u>Carbon</u></p>	<p>13. STATE <u>Utah</u></p>

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Supplementary history ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The subject well is at a depth of 8140', going in hole with test tool to make drill stem test No. 9 of the interval from 8097' to 8140'.

DST #8: 7615'-7635', Mancos formation, IO  $\frac{1}{2}$  hour, ISI  $\frac{1}{2}$  hour, FO 1 hour, FSI  $\frac{1}{2}$  hour, strong initial blow, gas up in 6 minutes, no gauge taken; on final opening, gauged 18 Mcf in 10 minutes, decreasing to 2 Mcf at end of test. Recovered 30' gas cut mud. IHP 4146 psi, ISIP 567 psi, IOFP's 38-38 psi, FOFP's 38-38 psi, FSIP 265 psi, FHP 4127 psi.

12-31-63

I talked with Mr. B. W. Croft of Mountain Fuel Supply and he stated that Mr. Folsom said there was no need to keep this file Confidential.

CLARELLA N. PECK

CONFIDENTIAL

18. I hereby certify that the foregoing is true and correct

SIGNED

B. W. Croft

TITLE

General Manager, Producing  
and Pipeline Divisions

DATE Dec. 30, 1963

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

### SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Wildcat</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>ML 10889</u>
2. NAME OF OPERATOR <u>Mountain Fuel Supply Company</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>—</u>
3. ADDRESS OF OPERATOR <u>P. O. Box 1129, Rock Springs, Wyoming 82901</u>		7. UNIT AGREEMENT NAME <u>Lease</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>NE SW NE, 1800' FNL, 1468' FEL of sec. 16</u>		8. FARM OR LEASE NAME <u>Keel Ranch area</u>
14. PERMIT NO. <u>—</u>		9. WELL NO. <u>Utah State No. 1</u>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>KBM 6768.35'</u>		10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>16-12S-13E</u>
		12. COUNTY OR PARISH <u>Carbon</u>
		13. STATE <u>Utah</u>

### 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

#### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

#### SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Supplementary historyREPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

### 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The subject well is drilling at a depth of 9019'.

DST #9: 8097'-8140', IO  $\frac{1}{2}$  hour, ISI  $\frac{1}{2}$  hour, FO  $1\frac{1}{2}$  hours, FSI  $1\frac{1}{2}$  hours, strong initial blow, gas up immediately, no gauge taken. On final opening, gauged 1233 Mcf gas in 15 minutes, decreasing to 670 Mcf gas per day at end of test. Recovered 195' mud. IHP 5000 psi, ISIP 3805 psi, IOFP's 324-171 psi, FOFP's 229-114 psi, FSIP 3260 psi, FHP 4943 psi.

DST #10: 8945'-8965', IO  $\frac{1}{2}$  hour, ISI 45 minutes, FO 1 hour, FSI 1 hour, strong blow, gas up in 19 minutes, not enough to gauge. On final opening, weak steady blow of gas, not enough to gauge. Recovered 180' gas cut mud. IHP 5739 psi, ISIP 258 psi, IOFP's 47-117 psi, FOFP's 117-141 psi, FSIP 235 psi, FHP 5692 psi.

### 18. I hereby certify that the foregoing is true and correct

SIGNED B.W. Craft

General Manager, Producing  
TITLE and Pipeline Divisions

DATE January 7, 1964

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

OIL &amp; GAS CONSERVATION COMMISSION

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Wildcat</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>State ML 10889</u>
2. NAME OF OPERATOR <u>Mountain Fuel Supply Company</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>-</u>
3. ADDRESS OF OPERATOR <u>P. O. Box 1129, Rock Springs, Wyoming</u>		7. UNIT AGREEMENT NAME <u>-</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) <u>At surface</u> <u>NE SWNE, 1800' FNL, 1468' FEL of sec. 16</u>		8. FARM OR LEASE NAME <u>Keel Ranch area</u>
		9. WELL NO. <u>Utah State No. 1</u>
		10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>16-12S-13E</u>
14. PERMIT NO. <u>-</u>	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>6768.35' KBM</u>	12. COUNTY OR PARISH <u>Carbon</u>
		13. STATE <u>Utah</u>

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☒CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The subject well was drilled to a total depth of 9182' without encountering oil and/or gas production. The well was bottomed in the Mancos formation. We would like permission to plug and abandon this well in the following manner, which was orally approved by your Mr. Paul Burchell in a telephone conversation with our Mr. S. J. Fisher.

Plug No. 1: 8200'-8000', 62 sax cement

Plug No. 2: 7000'-6800', 62 sax cement

Plug No. 3: 4450'-4250', 62 sax cement

Plug No. 4: 2550'-2350', 62 sax cement

Plug No. 5: 1060'-860', 62 sax cement

Plug No. 6: 634'-434', 117 sax cement

Plug No. 7: 4 sax cement into top of surface casing.

A regulation abandonment marker will be installed and the location leveled and cleaned. The mouse and rat holes will be plugged.

18. I hereby certify that the foregoing is true and correct

SIGNED

B.W. Croft

TITLE

General Manager, Producing and

Pipeline DivisionsDATE Jan. 10, 1964

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Wildcat		5. LEASE DESIGNATION AND SERIAL NO. ML 10889
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming		7. UNIT AGREEMENT NAME -
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE SW NE, 1800' FNL, 1468' FEL of sec. 16		8. FARM OR LEASE NAME Keel Ranch area
14. PERMIT NO. ---		9. WELL NO. Utah State No. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6768.35' KBM		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 16-12S-13E
		12. COUNTY OR PARISH Carbon
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The well was plugged and abandoned and the rig released on January 10, 1964. Cement plugs were laid as follows:  
 No. 1: 8200'-8000', 62 sacks.  
 No. 2: 7000'-6 800', 62 sacks.  
 No. 3: 4450'-4250', 62 sacks.  
 No. 4: 2550'-2350', 62 sacks.  
 No. 5: 1060'-860', 62 sacks.  
 No. 6: 634'-434', 117 sacks.  
 No. 7: 10 sacks into top of surface casing. Installed abandonment marker.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft

General Manager, Producing  
and Pipeline Divisions

DATE Jan. 13, 1964

(This space for Federal or State office use)

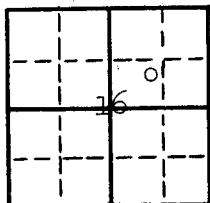
APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

(SUBMIT IN DUPLICATE)

LAND:



**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 SALT LAKE CITY, UTAH

Fee and Patented.....☐  
 State .....☒  
 Lease No. ML 10889  
 Public Domain .....☐  
 Lease No. ....  
 Indian .....☐  
 Lease No. ....

## SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill..... Notice of Intention to Change Plans..... Notice of Intention to Redrill or Repair..... Notice of Intention to Pull or Alter Casing..... Notice of Intention to Abandon Well..... ..... .....	Subsequent Report of Water Shut-off..... Subsequent Report of Altering Casing..... Subsequent Report of Redrilling or Repair..... Supplementary Well History..... ..... .....
--	--

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Keel Ranch Utah State Well No. 1 ..... November 11, 19 63

Well No. 1 is located 1800 ft. from {N} line and 1468 ft. from {E} line of Sec. 16  
NE SW NE sec. 16 12S 13E S. L. B. & M.  
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Keel Ranch area Carbon Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6766.60 feet.

A drilling and plugging bond has been filed with .....

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

The subject well is drilling at a depth of 5310'.

DST #1: 4645'-4680', Price River, IO ½ hour, ISI ½ hour, FO 1 hour, FSI ½ hour, good to fair blow on initial opening; on final opening, fair blow, gas up in 36 minutes, not enough volume to gauge. Recovered 75' gas cut mud. IHP 2459 psi, ISIP 770 psi, IOFP's 20-20 psi, FOFP's 20-41 psi, FSIP 669 psi, FHP 2459 psi.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company Mountain Fuel Supply Company

Address P.O. Box 1129

Rock Springs, Wyoming

By B. W. Croft

Title General Manager, Producing and Pipeline Divisions

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

1  
January 21, 1964

Mountain Fuel Supply Company  
P. O. Box 1129  
Rock Springs, Wyoming

Re: Well No. Keel Ranch State #1  
Sec. 16, T. 12 S., R. 13 E.,  
Carbon County, Utah

Gentlemen:

Upon receiving the "Induction-Electrical Log" for the above mentioned well, it was noticed that a Sonic Gamma Ray-Caliper Log was also run. As of this date we have not received said log.

Thank you for your cooperation in furnishing this office with this log.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK  
RECORDS CLERK

cnp





**MOUNTAIN FUEL SUPPLY COMPANY**

180 EAST FIRST SOUTH • P.O. BOX 989 • SALT LAKE CITY, UTAH 84110 • PHONE 328-8315

January 28, 1964

Miss Clarella N. Peck, Records Clerk  
Oil and Gas Conservation Commission  
310 Newhouse Building  
10 Exchange Place  
Salt Lake City, Utah 84111

Re: Well No. 1 Keel Ranch State #1  
Sec. 16, T. 12 S., R. 13 E.,  
Carbon County, Utah

Dear Miss Peck:

I am sending you the sonic gamma-ray caliper log on our Keel Ranch State #1 which you requested. Our company is keeping this log confidential and we would like you to keep it confidential and release it to no one.

Very truly yours,

V. B. Gras  
Staff Geologist

VBG/ew

Enclosure

*Confidential logs were put in the Engineering File  
on 1-29-64. JH*

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
310 NEWHOUSE BUILDING  
SALT LAKE CITY 11, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLINGWell Name & Number: Minnie Maud State No. 1 Keel Ranch State No. 1Operator Mountain Fuel Supply Co. Address Box 789 Phone 328-8315Contractor Brinkhoff Oil Co. Address Denver Phone \_\_\_\_\_Location: SW 1/4 NE 1/4 Sec. 16 T. 12 <sup>N</sup><sub>S</sub> R. 13 <sup>E</sup><sub>W</sub> Carbon County, Utah.

Water Sands:

Depth		Volume	Quality
From	To	Flow Rate or Head	Fresh or Salty
1. <u>404'</u>	<u>476'</u>	<u>13 bbls. per hr</u>	<u>sulfur water.</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____

(Continued on reverse side if necessary)

Formation Tops:

<u>Green River</u>	<u>Surface</u>
<u>Wasatch</u>	<u>515'</u>
<u>Price River</u>	<u>4365'</u>
<u>Castle Gate</u>	<u>5330'</u>
<u>Blackhawk</u>	<u>5635'</u>
<u>Mancos</u>	<u>6920'</u>

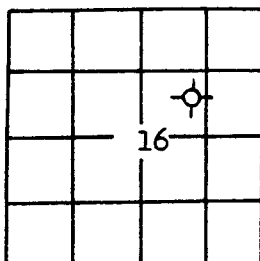
Remarks:

JAN 17 1964

NOTE: (a) Upon diminishing supply of forms, please inform the Commission  
(b) Report on this form as provided for in Rule C-20, General Rules  
and Regulations and Rules of Practice and Procedure. (See back of form)

Field Wildcat State UTAH County CARBON Sec. 16 T. 12S R. 13E  
Company MOUNTAIN FUEL SUPPLY Farm Keel Ranch Unit Well No. 1

Location 1800' ENL 1468' EEL Elev. 6755' GR. 6768.35' KB



Drilling Commenced SEPTEMBER 30, 1963 Completed JANUARY 8, 1964

Rig Released JANUARY 10, 1964 Total Depth 9182'

Casing Record 13-3/8" landed at 534.49' KBM with 475 sacks.

Tubing Record \_\_\_\_\_

Perforations \_\_\_\_\_

I.P. D&A Gas \_\_\_\_\_ Oil \_\_\_\_\_

Sands \_\_\_\_\_

Shut-in Surface Pressures \_\_\_\_\_

Remarks Pluggs at 8200' -8000', 7000' -6800', 4450' -4250', 2550' -2350',

1060' -860', 634' -434', surface.

13 bpo water flow between 404' to 476'.

SHORT FORMATION DESCRIPTION

From To

Sample study starts at 520' in the Wasatch Formation.

Surface-315' - Wasatch Tongue

315' - 515' - Green River Tongue

515' - 520' - Wasatch Formation

Wasatch Formation

520' 4365'

Variegated Shale interbedded with Sandstone, Siltstone and Limestone. Shale, red, brown, reddish-brown, gray-green, green, yellow, gray, purple, calcareous in part, micaceous, silty, soft to hard, blocky. Some carbonaceous in lower part. Sandstone, white, red, brown, gray, greenish-gray, yellow, light gray to green some dark grains: very fine grain to medium grain, angular to sub-rounded grains, iron stained poorly sorted, silty, calcareous in part, arkosic, micaceous, hard, tight to friable. Siltstone, gray, light gray, sandy, calcareous, hard, tight. Limestone, green, light gray, dense, hard.

Price River Formation

4365' 5330'

Sandstone, Siltstone, Shale. Sandstone, gray, light gray, white, very fine grain to medium grain, calcareous in part, unfrosted, sub-rounded to subangular grains, hard, tight. Siltstone, dark grayish-brown, sandy, carbonaceous, hard, tight. Shale, gray, grayish-green, some brown carbonaceous, sandy, silty, calcareous, firm to hard.

Castlegate Sandstone

5330' 5635'

Field Wildcat

Sec. 16 T. 12S R. 13E

Farm Keel Ranch Unit

Well No. 1

Company Mountain Fuel Supply Company

---

SHORT FORMATION DESCRIPTION

---

Blackhawk Formation

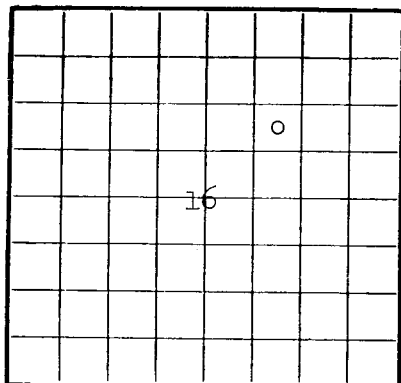
From To  
5635' 6920'

Sandstone, Shale, Siltstone and coal. Sandstone, white, light gray, very fine grain to fine grain, sub-rounded, frosted, calcareous, hard, tight to friable. Shale, dark gray to brown, silty, carbonaceous, firm to hard. Siltstone, dark gray to brown with some carbonaceous material, hard.

Mancos Shale

6920' 9182'TD

Shale, some Sandstone and coal. Shale, gray to light gray, brownish-gray, yellow, brown, soft, silty, calcareous. Sandstone, white, light gray, very fine to fine grain, hard, tight.



LOCATE WELL CORRECTLY

# STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

Salt Lake City, Utah

To be kept Confidential until \_\_\_\_\_  
(Not to exceed 4 months after filing date)

## LOG OF OIL OR GAS WELL

Operating Company Mt. Fuel Supply Co. Address P. O. Box 1129, Rock Springs, Wyoming  
Lease or Tract Keel Ranch area Field — State Utah  
Well No. 1 Sec. 16 T. 12S R. 13E Meridian 6th P. M. County Carbon  
Location 1800 ft. XX of N. Line and 1468 ft. EX of E. Line of sec. 16 Elevation 6766.60 <sup>(Derrick floor relative to sea level)</sup>

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed B. W. Craft

Date January 14, 1964

Title General Manager, Producing and Pipeline Divisions

The summary on this page is for the condition of the well at above date.

Commenced drilling September 30, 1963 Finished drilling January 8, 1964

### OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

### IMPORTANT WATER SANDS

No. 1, from 404 to 476 No. 3, from 1180 to 1310  
No. 2, from 580 to 595 No. 4, from \_\_\_\_\_ to \_\_\_\_\_

### CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8	48	8rnd	Spang	526.09'	Baker guide				surface

### MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	534.49' KBM	475	Displacement		84.5 bbls. water

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

[illegible]

## TOOLS USED

Rotary tools were used from 0 feet to 9182 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

## DATES

Date P & A January 10, 19 64 Put to producing \_\_\_\_\_, 19\_\_\_\_

The production for the first 24 hours was ----- barrels of fluid of which -----% was oil; -----% emulsion; -----% water; and -----% sediment. Gravity, °Bé. -----

Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours \_\_\_\_\_ Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. \_\_\_\_\_

Brinkerhoff Drilling Company

## EMPLOYEES

-----  
A. F. Hasting, Driller  
-----

\_\_\_\_\_  
S. D. Christensen, Driller

## FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			At the end of complete Driller's Log add Geologic Tops. State whether from Electric Logs or samples.
	See attached formation record.		
	Electric logs enclosed.		

JAN 30 1964

[OVER]

JAN 30 1964

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Keel Ranch Area**  
(Formerly Minnie Maud)

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Carbon** Field **Keel Ranch Area**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **JAN** **1964**, 19.....,

Agent's address **P. O. Box 989** Company **MOUNTAIN FUEL SUPPLY COMPANY**  
**SALT LAKE CITY, UTAH**

Phone **328-8315** Signed *T. L. Neely* Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down cause; date and result of test for gasoline content of gas)
<b>NE, SW, NE 16</b>	<b>12</b>	<b>13</b>	<b>1</b>							<b>Spudded 9/30/63 Plugged and abandoned 1/10/64 Depth 9182'</b>

NOTE.—There were..... runs or sales of oil; ..... M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)  
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Utah Oil & Gas Conservation Commission.

Would you please be kind enough to send me a supply of all O&G forms for wells drilled in Utah to the undersigned:

Steve Majhanovich  
Mountain Fuel Supply Company  
P. O. Box 1129  
Rock Springs, Wyoming

*Sent*

*8/30/13*

*[Signature]*



DELIVER TO: \_\_\_\_\_

DEPARTMENT \_\_\_\_\_

FROM \_\_\_\_\_

DEPT. \_\_\_\_\_

MEMO:

AUG 30 1963

29W  
October 8, 1964

MEMO FOR FILING:

Re: Mountain Fuel Supply Company  
Well No. Keep Ranch-Cow Canyon Unit #1  
Sec. 16, T. 12 S., R. 13 E.,  
Carbon County, Utah

I visited this well on October 1, 1964. Abandoned well site (1-9-64) has been cleaned, and identified in a satisfactory manner. No hazards could be observed in the immediate area. However, approval cannot be given at the present time. A reserve pit, which is filled with oil, remains exposed on the location. Although it is properly fenced, the operator will have to fill and level after the fluids have evaporated.

It should be noted that a more detailed check was made regarding the unorthodox location, (20' too far north and 420' too far east) and it was found ~~legitimate~~ due to the nature of the terrain.

→ Ligi 99  
legitimate  
PAUL W. BURCHELL  
CHIEF PETROLEUM ENGINEER

PWB:ns

cc: H. L. Coonts, Pet. Eng.  
Box 266  
Moab, Utah

Rodney Smith, District Engineer  
U. S. Geological Survey  
8416 Federal Bldg., Salt Lake City, Utah

Gail Prince  
State Land Board  
Room 105, State Capitol Bldg., Salt Lake City, Utah

Mountain Fuel Supply  
Box 989  
Salt Lake City, Utah

September 10, 1965

MEMO FOR FILING

Re: Mountain Fuel Supply Company  
Well No. Cow Canyon Unit #1  
Keel Ranch State #1  
Sec. 16, T. 12 S., R. 13 E.,  
Carbon County, Utah

I visited the above location on September 9, 1965. This abandoned location now meets with approval. Well site has been properly identified, pits filled, cleaned and restored almost to its original contour.

Operator can now be relinquished from its bond liability.

PAUL W. BURCHELL  
CHIEF PETROLEUM ENGINEER

PWB:cnp

cc: State Land Board  
105 State Capitol Building  
Salt Lake City, Utah

Rodney Smith, District Engineer  
U. S. Geological Survey  
8416 Federal Building  
Salt Lake City, Utah

September 22, 1970

MEMO FOR FILING

Re: September 18, 1970

Mountain Fuel Supply Company  
Cow Canyon #1  
Sec. 16, T. 12 S., R. 13 E.  
Carbon County, Utah

Plugged and abandoned location has been satisfactorily cleaned, leveled, and properly identified. It is recommended that liability under the bond be terminated.

PAUL W. BURCHELL  
CHIEF PETROLEUM ENGINEER

PWB:cr

cc: U. S. Geological Survey

82  
August 1, 1974

MEMO FOR FILING

Re: MT. FUEL SUPPLY COMPANY  
Keel Ranch-State #1  
Sec. 16, T. 12 S, R. 13 E,  
Carbon County, Utah

On July 25, 1974, a visit was made to the above referred to well site.

Old plugged and abandoned well still retains its approved status. No hazards or leaks were observed.

PAUL W. BURCHELL  
CHIEF PETROLEUM ENGINEER

PWB:lp

cc: State Land Board  
U. S. Geological Survey

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN TRIPLICATE\*  
 (Other instructions on  
 reverse side)

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL <input type="checkbox"/> <i>re-entry</i> DEEPEN <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. Lease Designation and Serial No. ML-27324
b. Type of Well Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>		6. If Indian, Allottee or Tribe Name
2. Name of Operator TRIGG DRILLING COMPANY, INC.		7. Unit Agreement Name Keel Ranch
3. Address of Operator 2122 Western Fed. Svgs. Bldg, 718-17th Street, Denver, CO 80202		8. Farm or Lease Name Keel Ranch Unit
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 1468' FEL, 1800' FNL <i>SW NE</i>		9. Well No. #1-16
At proposed prod. zone Same		10. Field and Pool, or Wildcat Wildcat
14. Distance in miles and direction from nearest town or post office*		11. Sec., T., R., M., or Blk. and Survey or Area Section 16, T12S-R13E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 1468'	16. No. of acres in lease 560	12. County or Parrish 13. State Carbon Utah
18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. None	17. No. of acres assigned to this well 640	19. Proposed depth 12,500'
20. Rotary or cable tools Rotary	21. Elevations (Show whether DF, RT, GR, etc.) 6755' GR	22. Approx. date work will start* February 20, 1981

### PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
* 17 1/2	13 3/8	Unknown	534'	475 sx
12 1/4	9 5/8	36	1,700'	to surface
8 3/4	5 1/2	17	12,500'	300 sx

\*existing casing string.

The objective zone of this well is the Ferron.

We propose to re-enter the Keel Ranch No. 1 well which was plugged and abandoned at a drilled depth of 9182' on January 10, 1964. A new string of surface casing will be set at 1700 feet. An 8 3/4" hole will be drilled to a new T.D. of 12,500'. Electric logs will be run and, if warranted, 5 1/2" production casing will be set. Location plat and BOP program is attached.

**APPROVED BY THE DIVISION  
 OF OIL, GAS, AND MINING**

DATE: 3-30-81

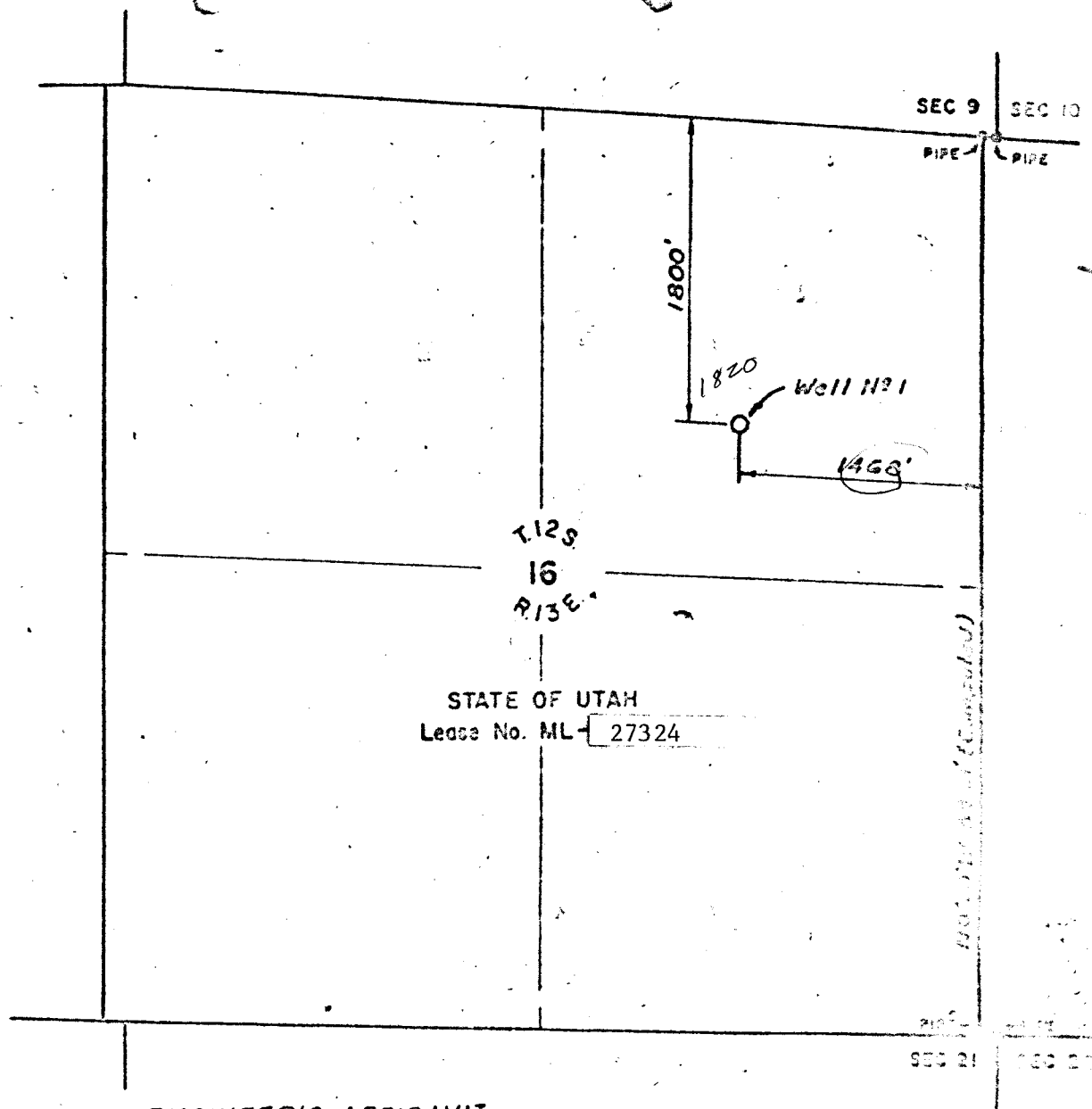
BY: Hugh E. Harvey, Jr.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed: Hugh E. Harvey, Jr. Title: Division Engineer Date: February 13, 1981  
 (This space for Federal or State office use)

Permit No. \_\_\_\_\_ Approval Date \_\_\_\_\_

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any: \_\_\_\_\_



### ENGINEER'S AFFIDAVIT

State of Wyoming }  
County of Sweetwater } s.s.

I, R.C. Day, of Rock Springs Wyoming, hereby certify that this map was made from notes taken during an actual survey made under my direction by A.L. Nelson on August 12 to 15, 1963; and that it correctly represents the location thereon with section measurements based on the official survey plat of Section 16, T.12 S., R.13E and the resurvey plat of adjoining Sections 9 & 21, T.12 S., R.13E.

*R.C. Day*  
Engineer

Utah Registration N° 1295



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG.  
DENVER, COLO. 80202

#### WELL CONTROL AND RELATED INFORMATION

Trigg Drilling Company, Inc.  
KEEL RANCH UNIT #1-16  
Section 16, T12S-R13E  
Carbon County, Utah

#### Proposed Reentry

1. Surface formation - Green River

2. Estimated formation tops:

Wasatch	515
Price River	4,315
Castlegate	5,330
Mancos	6,920
Ferron	11,500
Dakota	12,000
T.D.	12,500

3. Estimated depths at which anticipated water, oil or gas or other mineral bearing formations are expected:

Water: 0-1,700'  
Gas or Oil: 1,700-12,500'

4. Casing program and current well bore conditions:

Casing in place consists of:  
13 3/8", 48# set @534' with cement to surface  
Present T.D. is 9182'.

Cement plugs are set at:

No. 1	8200-8000	62 sacks
No. 2	7000-6800	62 sacks
No. 3	4450-4250	62 sacks
No. 4	2550-2350	62 sacks
No. 5	1060- 860	62 sacks
No. 6	634- 434	117 sacks
No. 7	10 sacks at top of surface casing.	

Proposed casing program:

\*New surface casing 0-1,700' 9 5/8", 36# with cement to surface  
Production casing 0-12,500' 5 1/2", 17# with cement to cover pay zones

\*New surface casing to be set deep enough to cover water flows encountered at 404'-476', 580-595' and 1180'-1310'. This casing string will be set by a small rotary rig before the primary rig is moved onto the hole.



5. Pressure control equipment:
  - a. During setting of new surface casing a rotating head will be attached to the old surface casing to divert any flows of gas or water.
  - b. During re-entry and drilling, BOP stack will consist of 12" 5000# double ram stack topped with 12" 3000# hydrill. Appropriate choke manifold and kill lines will be attached. Rotary rig will have pit level monitor and flow sensing device. See enclosed drawing. Drill pipe stabbing valve will be kept on the floor at all times. ✓
6. Drilling fluids:

0'-12,500': Weighted, fresh water mud. Weight to be 10.0-11.4 ppg to control hole conditions. ✓
7. Auxiliary equipment to be used:

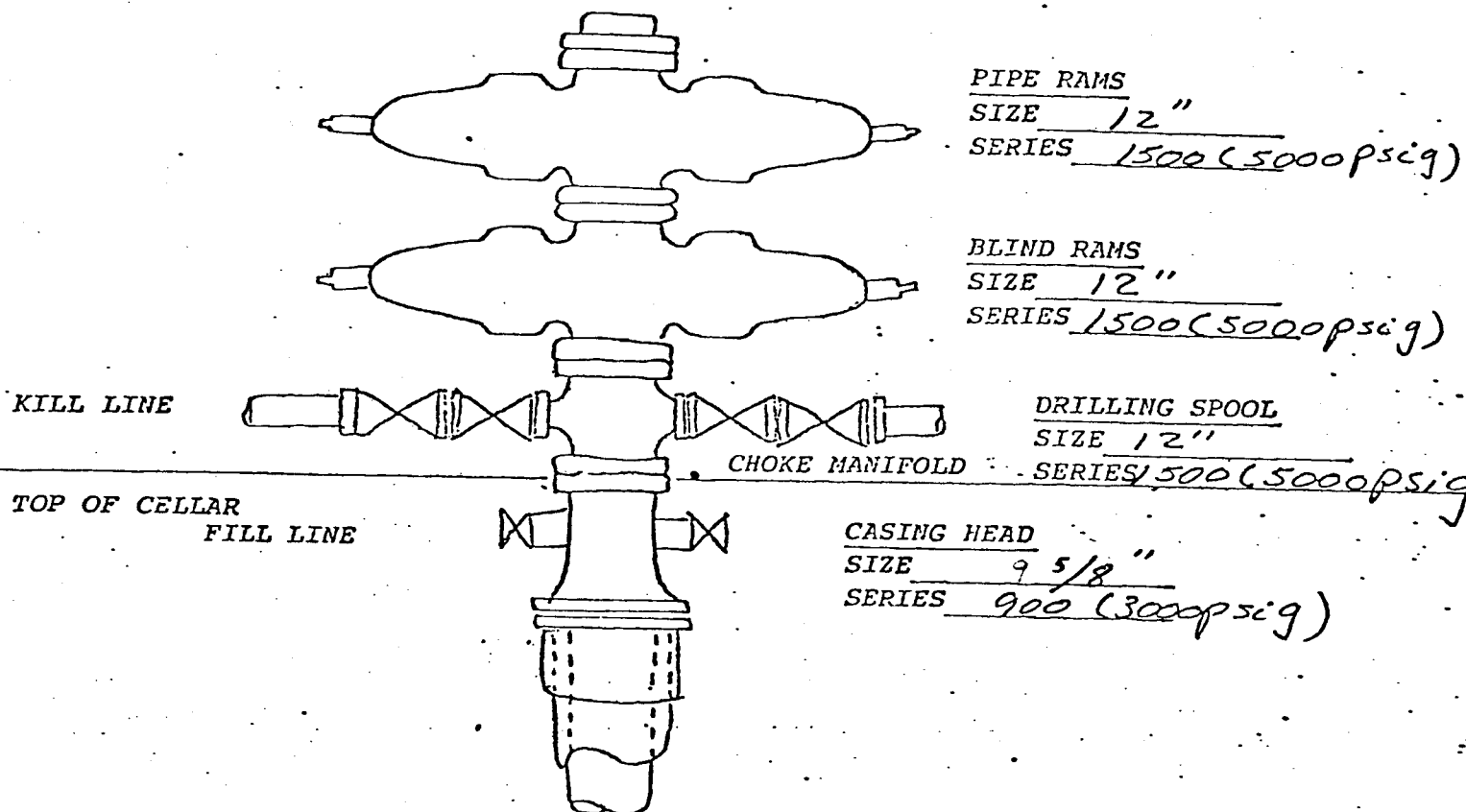
None.
8. Coring, testing, and logging program:

No cores or DST's are anticipated. Electric logs will be gamma ray, SP, dual induction and density-neutron porosity.
9. Abnormal conditions or potential hazards:

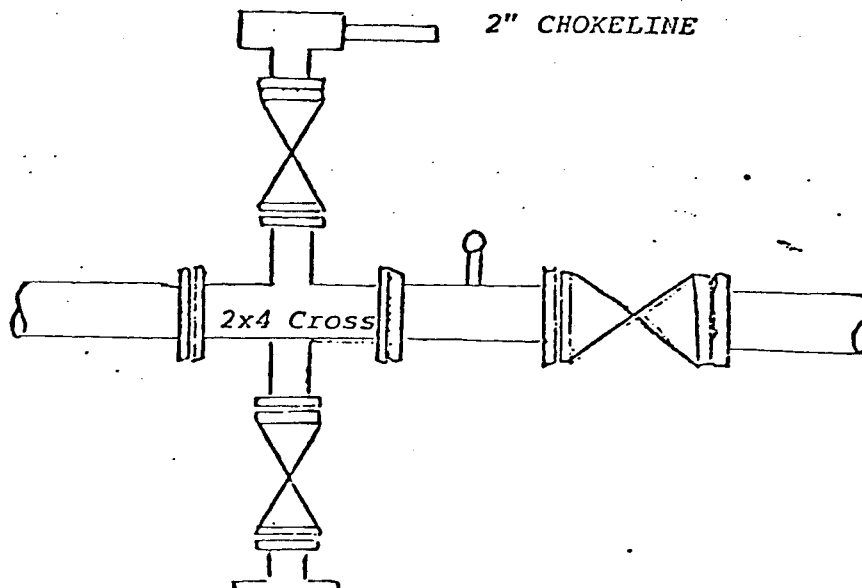
No abnormal conditions or potential hazards are anticipated.  
No H<sub>2</sub>S gas is known to exist in the formations to be drilled.
10. Anticipated starting date:

February 18, 1981.

BOP SKETCH



CHOKE MANIFOLD



DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources,  
Division of State Lands, holder of lease,

ML - 27324

and hereby designates

Name: Trigg Drilling Co., Inc.

Address: Suite 2122 - 718 17th Street  
Denver, Colorado 80202

as his operator and local agent, with full authority to act in his behalf  
in complying with the terms of the lease and regulations applicable thereto  
and on whom the Director of the Division of State Lands or his representa-  
tive may serve written or oral instructions in securing compliance with  
the Rules and Regulations governing the issuance of mineral leases with  
respect to (describe acreage to which this designation is applicable):

Township 12 South, Range 13 East  
Section 16: All

It is understood that this designation of operator does not relieve the  
lessee of responsibility for compliance with the terms of the lease and Rules  
and Regulations. It is also understood that this designation of operator does  
not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will  
make full and prompt compliance with all regulations, lease terms, or orders  
of the Director of the Division of State Lands or his representative.

The lessee agrees promptly to notify the Director of the Division of State  
Lands of any change in the designated operator.

UNION OIL COMPANY OF CALIFORNIA

By:

*John Hansen*

(Signature of lessee) Attorney-in-fact *CP*

February 11, 1931  
(Date)

P. O. Box 3100, Midland, Texas 79701  
(Address)



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG.  
DENVER, COLO. 80202

February 13, 1981

State of Utah  
Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

RE: Keel Ranch Unit #1-16  
Section 16, T12S-R13E  
Carbon County, Utah

Gentlemen:

Enclosed for your approval is our application for permit to re-enter and deepen the above captioned well. Also enclosed are copies of the designation of operator and bond in the amount of \$10,000.

This will be the obligatory well for a Federal Unit designated as the Keel Ranch Unit. Appropriate copies of the above material have been sent to the U.S.G.S. in Salt Lake City,

We are facing a lease expiration deadline. Your prompt attention to this matter would be appreciated.

Sincerely yours,

HUGH E. HARVEY, JR.  
Division Engineer

HEH/jw

cc: U.S.G.S. - Salt Lake City

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

ML 27324

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Keel Ranch

8. FARM OR LEASE NAME

Keel Ranch Unit

9. WELL NO.

#1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLE. AND  
SURVEY OR AREA

Section 16, T12S-R13E

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

TRIGG DRILLING COMPANY, INC.

3. ADDRESS OF OPERATOR

2122 Western Fed.Svgs.Bldg., 718-17th St., Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

1468' FEL, 1800' FNL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6755' GR

16.

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐

PULL OR ALTER CASING

☐

FRACTURE TREAT

☐

MULTIPLE COMPLETE

☐

SHOOT OR ACIDIZE

☐

ABANDON\*

☐

REPAIR WELL

☐

CHANGE PLANS

☐

(Other)

☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐

REPAIRING WELL

☐

FRACTURE TREATMENT

☐

ALTERING CASING

☐

SHOOTING OR ACIDIZING

☐

ABANDONMENT\*

☐

(Other) Suspended operations

☒(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Reentry operations were started February 27, 1981.

The well was reentered to a depth of 1698'. New 9 5/8" 36# surface casing was run and cemented at 1690'. Cement was circulated. Rotary tools were released March 10, 1981. A larger rig will be moved in when available and operations will resume.

RECEIVED

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Hugh E. Harvey

TITLE Division Engineer

DATE 3/16/81

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

April 6, 1981

Trigg Drilling Company, Inc.  
2122 Western Federal Savings Bldg.  
718-17th Street  
Denver, Colorado 80202

Re; Well No. Keel Ranch Unit #1-16  
Sec. 16, T. 12S, R. 13E, SW NE  
Carbon County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-5771  
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-007-30062.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder  
Petroleum Engineer

MTM/ko

cc: State Land Board, Donald Prince



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG.  
DENVER, COLO. 80202

May 5, 1981

TELEPHONE  
303/623-0070

JACK E. TRIGG  
JOE DAN TRIGG

State of Utah  
Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Re: Keel Ranch Unit #1-16  
Section 16-T12S-R13E  
Carbon County, Utah

Gentlemen:

Enclosed is a sundry notice for the above-captioned well, depicting  
the resuming of operations on May 2, 1981.

Please do not hesitate to contact me if you should have any questions.

Sincerely,

TRIGG DRILLING COMPANY, INC.

Hugh E. Harvey, Jr.  
Division Engineer

HEH/ck

enclosure

MAY 7 1981

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPPLICATE\*  
(Other instructions on  
reverse side)

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1. OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b>  
<b>2. NAME OF OPERATOR</b> Trigg Drilling Company, Inc.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b>  
<b>3. ADDRESS OF OPERATOR</b> 2122 Western Federal Savings Bldg., Denver, Colorado 80202		<b>7. UNIT AGREEMENT NAME</b> Keel Ranch
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1468' FEL, 1800' FNL		<b>8. FARM OR LEASE NAME</b> Keel Ranch Unit
<b>14. PERMIT NO.</b>		<b>9. WELL NO.</b> 1-16
<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.)  6755' GR		<b>10. FIELD AND POOL, OR WILDCAT</b> Wildcat
		<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b>  16-12S-13E
		<b>12. COUNTY OR PARISH</b> Carbon
		<b>13. STATE</b> Utah

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Resume operations</u>	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Operations on the above lease were resumed May 2, 1981 at 6:00 a.m. Veco Drilling Company, Rig #9, is rigged up on the hole. BOP's and surface pipe were tested to 1100 psi, and the surface pipe plug was drilled.

**18. I hereby certify that the foregoing is true and correct**

SIGNED High E. Harvey TITLE Division Engineer DATE May 5, 1981

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Keel Ranch

8. FARM OR LEASE NAME

Keel Ranch Unit

9. WELL NO.

1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 16-T12S-R13E

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Trigg Drilling Company, Inc.

3. ADDRESS OF OPERATOR

2122 Western Federal Savings Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1468' FEL, 1800' FNL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

6755 GR

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Monthly Report - June, 1981 ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

May 31, 1981 - Drilling @ 10,631'

June 30, 1981 - Drilling @ 12,450'

RECEIVED  
JUL 10 1981DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*Hugh E. Hawley*

TITLE

Division Engineer

DATE July 7, 1981

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

DIVISION OF  
OIL, GAS & MINING

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

*not found*

Well Name & Number Keel Ranch Unit #1-16  
Operator Trigg Drilling Company, Inc. Address 2122 Western Federal Svgs. Bldg.  
Denver, Colorado 80202  
Contractor Veco Drilling Co. Address Box 1705  
Grand Junction, Colorado 81501  
Location SW 1/4 NE 1/4 Sec. 16 T: 12S R. 13E County Carbon

Water Sands

	<u>Depth</u>	<u>Volume</u>	<u>Quality</u>
	From To	Flow Rate or Head	Fresh or Salty
1.	NONE		
2.			
3.			
4.			
5.			

(Continue of reverse side if necessary)

Formation Tops

Remarks

Hole was re-entered and deepened from 9180' to 12,646'.

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Keel Ranch

8. FARM OR LEASE NAME

Keel Ranch Unit

9. WELL NO.

1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 16-T12S-R13E

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Trigg Drilling Company, Inc.

3. ADDRESS OF OPERATOR

2122 Western Federal Savings Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1468' FEL, 1800' FNL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6755 GR

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

FULL OR ALTER CASING

☐  
☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Monthly Report - June, 1981

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

May 31, 1981 - Drilling @ 10,631'

June 30, 1981 - Drilling @ 12,450'

RECEIVED  
JUL 10 1981DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*Hugh E. Sawyer*

TITLE

Division Engineer

DATE

July 7, 1981

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO.	
2. NAME OF OPERATOR Trigg Drilling Company, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 2122 Western Fed. Svgs. Bldg., Denver, Colorado 80202		7. UNIT AGREEMENT NAME Keel Ranch Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1468' FEL, 1800' FNL		8. FARM OR LEASE NAME Keel Ranch Unit	
14. PERMIT NO.		9. WELL NO. 1-16	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6755' GR		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 16-T12S-R13E	
		12. COUNTY OR PARISH Carbon	13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐

PULL OR ALTER CASING

☐

FRACTURE TREAT

☐

MULTIPLE COMPLETE

☐

SHOOT OR ACIDIZE

☐

ABANDON\*

☐

REPAIR WELL

☐

CHANGE PLANS

☐

(Other)

☐☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐

REPAIRING WELL

☐

FRACTURE TREATMENT

☐

ALTERING CASING

☐

SHOOTING OR ACIDIZING

☐

ABANDONMENT\*

☐

(Other) Progress Report

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Progress Report:

8/1/81 Completing

PU pkr. TIH to 12,367'. Set pkr. NU tree. Test pkr to 2000#, ok. SWI.

8/31/81 SI. WO evaluation.

Received  
10-7-81

18. I hereby certify that the foregoing is true and correct

SIGNED

*Dwight E. Harvey*

TITLE

Division Engineer

DATE

10/5/81

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

November 6, 1981

Trigg Drilling Company  
2122 Western Fed. Svcs.  
Denver, Colorado 80202

Re; WELL NO. Keel Ranch Unit #1-16  
Sec. 27, T. 41S R. 26E.  
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Recompletion Report and Log for the above mentioned well, is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicated and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

A handwritten signature in cursive script, reading "Sandy Bates".

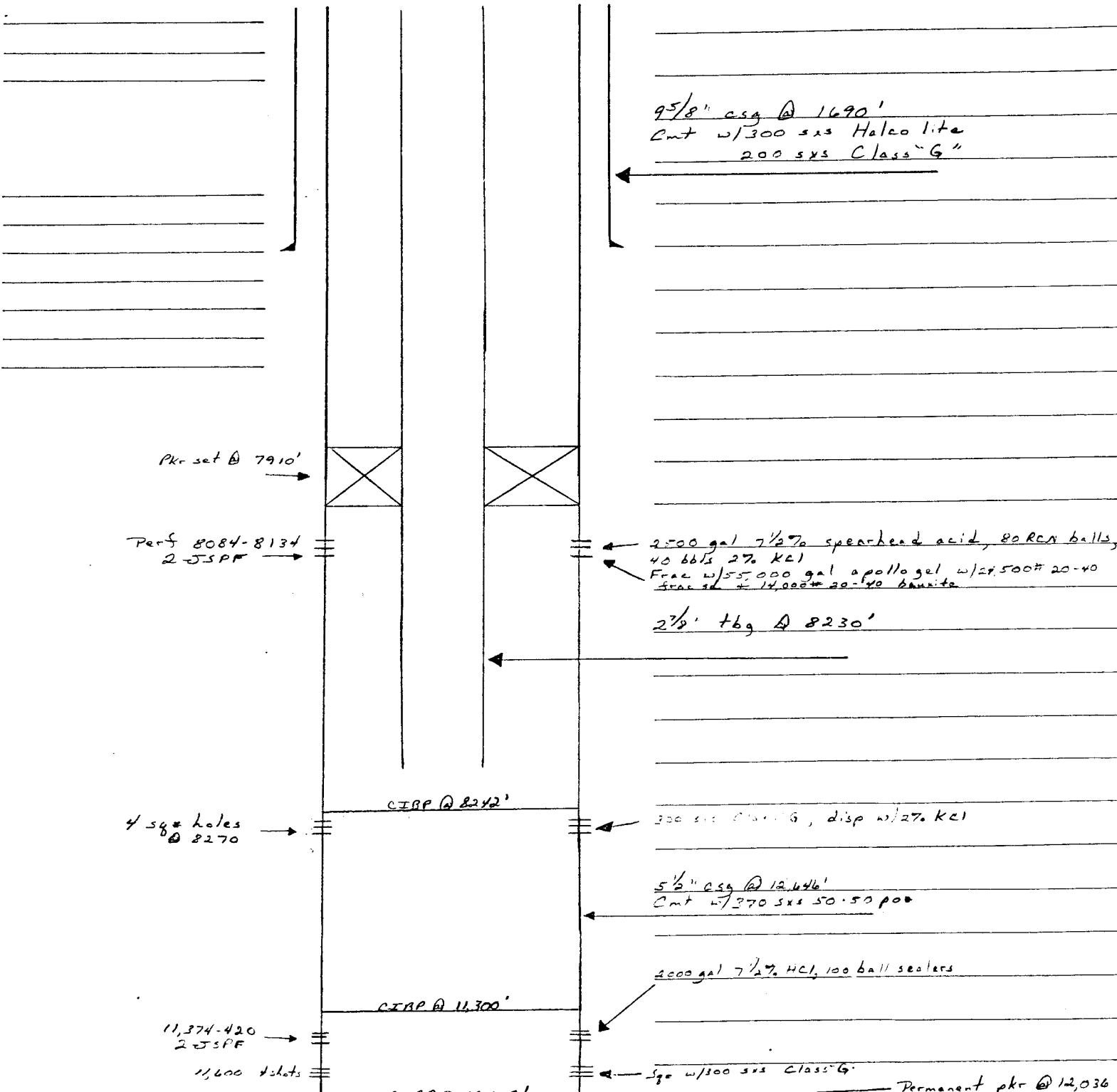
SANDY BATES  
CLERK

# WELL DATA SHEET

OPERATOR Energy Policy Co. WELL Kearl Ranch Unit # 1-16  
 FIELD Kearl Ranch Unit COUNTY Carbon STATE Utah  
 LOCATION Sec 16 T2S - R3E  
 ELEV. 6744 KB 6755 G.L. SPUD DATE 2/28/81 COMP. DATE 10/23/81  
 T.D. 12,646 P.B.T.D. 9230 FORM. Manco

DRAWING NOT TO SCALE

## COMPLETION & WORKOVERS



SUBMIT IN DUPLICATE\*

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Keel Ranch

8. FARM OR LEASE NAME

Keel Ranch Unit

9. WELL NO.

1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 16-12S-13E

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

1a. TYPE OF WELL:

OIL WELL ☐GAS WELL ☒DRY ☐

Other \_\_\_\_\_

b. TYPE OF COMPLETION:

NEW WELL ☐WORK OVER ☐DEEP-EN ☒PLUG BACK ☐DIFF. RESVR. ☐

Other \_\_\_\_\_

2. NAME OF OPERATOR

Trigg Drilling Company, Inc

3. ADDRESS OF OPERATOR

2122 Western Fed.Svgs.Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1468' FEL, 1800' FNL

At top prod. interval reported below as above

At total depth as above

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

2/28/81

16. DATE T.D. REACHED

7/6/81

17. DATE COMPL. (Ready to prod.)

10/23/81

18. ELEVATIONS (DF. RKB, RT. GR, ETC.)\*

6755 GR 6774 KB

19. ELEV. CASINGHEAD

6755

20. TOTAL DEPTH, MD &amp; TVD

12,646

21. PLUG, BACK T.D., MD &amp; TVD

8242

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

all

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

8084-8134' Mancos

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction-GR-SP, CBL, CNL-Density, Acoustilog, Welex frac finder

27. WAS WELL CORRED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	1690'	12 1/4"	300 sxs Halco lite & 200 sxs Class "G"	
5 1/2"	17#	12,646'	7-7/8"	370 sxs 50-50 poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	8230'	

31. PERFORATION RECORD (Interval, size and number)

See attached

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See	attached

33.\*

## PRODUCTION

DATE FIRST PRODUCTION

SI

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Flowing

WELL STATUS (Producing or shut-in)

SI

DATE OF TEST

10/23/81

HOURS TESTED

7

CHOKE SIZE

PROD'N. FOR TEST PERIOD

OIL—BBL.

tr

GAS—MCF.

129.5

WATER—BBL.

0

GAS-OIL RATIO

-

FLOW. TUBING PRESS.

570

CASING PRESSURE

0

CALCULATED 24-HOUR RATE

OIL—BBL.

tr

GAS—MCF.

444

WATER—BBL.

0

OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

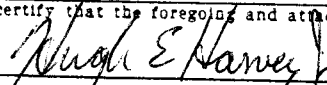
C. Baldes

35. LIST OF ATTACHMENTS

Wellbore sketch and perf. record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED



TITLE

Division Manager

DATE 11/13/81

\*(See Instructions and Spaces for Additional Data on Reverse Side)

## INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), flow and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

### 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ferron and Dakota			All perforated intervals tested tight except for 12,166-12,196' which tested gas at 2.6 MMCFD but depleted in three days.

### 38.

### GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ferron	11,260	
Dakota	12,000	



Attachment  
Keel Ranch Unit #1-16  
Section 16-12S-13E  
Carbon County, Utah

Trigg Drilling Company, Inc.

Perforation Record

12,590-603', 2 JSPF  
12,420-432', 2 JSPF  
12,280-286', 2 JSPF  
12,294-304', 2 JSPF  
12,188-196' and 12,177-183' and 12,166-171', 2 JSPF  
11,600', 4 shots  
11,374-420', 2 JSPF  
4 sqz holes @ 8270'  
8084-8134'

Acid, Shot, Fracture, Cement Squeeze, Etc.

12,590-603', 1000 gal 7½% HCl, 77 bbl 2% KCl  
12,420-432', 1000 gal 7½% HCl  
12,280-286' and 12,294-304', 1000 gal 7½% HCl  
12,188-196' and 12,177-183' and 12,166-171', 1500 gal 7½% HCl and 80 RCN balls  
followed by 10 bbls Methanol and 79 bbls 2% KCl  
11,600', sqz w/300 sxs Class "G"  
11,374-420', 2000 gal 7½% HCl and 100 ball sealers  
4 sqz holes @ 8270', 300 sxs Class "G" disp w/2% KCl  
8084-8134', 2500 gal 7½% spearhead and 80 RCN balls followed by 40 bbls 2% KCl

Fracture

55,000 gal apollo gel w/24,500# 20-40 sd and 14,000# 20-40 bauxite



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG.  
DENVER, COLO. 80202

November 13, 1981

TELEPHONE  
303/623-0070

JACK E. TRIGG  
JOE DAN TRIGG

State of Utah  
Division of Oil, Gas, & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

Attn: Sandy Bates

Re: Keel Ranch Unit #1-16  
Section 16-12S-13E  
Carbon County, Utah  
TITE HOLE

Dear Ms. Bates:

With reference to your letter of November 6, 1981, we enclose a well completion report, along with a wellbore sketch and perforation record for the above-captioned well.

Please do not hesitate to contact this office if you should have any questions regarding this matter.

Sincerely,

TRIGG DRILLING COMPANY, INC.

Hugh E. Harvey, Jr.  
Division Manager

HEH/ck

enclosures

cc: U.S. Geological Survey

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Trigg Drilling Company, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 2122 Western Federal Svgs. Bldg., Denver, Colorado 80202		7. UNIT AGREEMENT NAME Keel Ranch Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1468' FEL, 1800' FNL		8. FARM OR LEASE NAME Keel Ranch Unit
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6755' GR	9. WELL NO. 1-16
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 16-12S-13E
		12. COUNTY OR PARISH Carbon
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Progress Report</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Progress Report:

1/1/82 Waiting on pipeline.

1/31/82 Waiting on pipeline.

RECEIVED  
MAR 05 1982DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Paul E. W. [Signature]TITLE Division EngineerDATE 2/26/82

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 15, 1982

Trigg Drilling Company, Inc.  
2122 Western Federal Svcs. Bldg.  
Denver, Colorado 80202

Re: Well No. Keel Ranch Unit #1-16  
Sec. 16, T. 12S, R. 13E.  
Carbon County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office November 13, 1981, from above referred to well, indicates the following electric logs were run: Induction-GR-SP, CBL, CNL-Density, Acoustilog, Welex frac finder. As of today's date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We have a request for the above logs. It would be greatly appreciated if you would promptly send them in.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

bit #3  
 LING COMPANY  
 b. TGF-106

Section	County	Total Depth (ft)	Well Elevation (ft)	Total Depth Subsea (ft)	Deepest Formation Penetrated		Top of Mancos (ft)
					Name	Depth (ft)	
8	Uintah	6465	5808	- 657	Mesaverde	6165	
3	Uintah	6732	6555	- 177	Island	5758	
1	Uintah	6190	5458 GF	- 732	Mesaverde	4882	
2	Uintah	8037	5550	-2487	Mancos	7435	7435
4	Uintah	6505	5546 G	- 959	Mesaverde	5304	
8	Uintah	5671	5992 KB	+ 321	Wasatch	3704	
9	Uintah	6304	5719 G	- 585	Mesaverde	5289	
10	Uintah	7384	5735 G	-1649	Mancos	7280	7280
11	Uintah	5940	5875 G	- 65	Mesaverde	5178	
13	Uintah	623	5480 G	+4857	Uintah		
13	Uintah	5857	5480 G	- 377	Wasatch	2572	
14	Uintah	6649	5969 G	- 680	Mesaverde	5270	
15	Uintah	6476	5963 G	- 513	Mesaverde	5068	
16	Uintah	5950	5839 G	- 111	Wasatch	3280	
21	Uintah	5276	6093 G	+ 817	Mesaverde	5280	
22	Uintah	6243	6072 KB	- 171	Mesaverde	2120	
23	Uintah	5850	5732 DF	- 118	Mesaverde	4664	
30	Uintah	7388	5902 DF	-1486	Mancos	7350	7350
6	Uintah	5950	5207 DF	- 743	Mesaverde	2677	
7	Uintah	5840	5268 G	- 572	Mesaverde	4438	
8	Uintah	6569	5309 G	-1260	Mancos	6552	6552
18	uintah	223	5441 G	+5218	None		
18	Uintah	5581	5441 G	- 140	Mesaverde	4414	
19	Uintah	5600	5620 DF	+ 20	Wasatch	2100	
33	Uintah	3378	5764 DF	+3214	Mesaverde	4430	
5	Uintah	839	5533 DF	+4694	Green River	Surface	
22	Uintah	6300	5731 DF	- 569	Mancos 'B'	5847	5847

Ex  
TRIGG DR  
Cause

Name of Well	Operator	Well Location	
		Twnshp	Range
Love Unit #A1-18	Cotton Petroleum	11S	22E
East Bench Federal #1-23	Belco Development	11S	22E
Rainbow Unit #4	Diamond Shamrock	11S	23E
State #1	Stanolind Oil & Gas	11S	23E
Rock House Unit #7	Diamond Shamrock	11S	23E
Government #1-8	Diamond Shamrock	11S	23E
Rock House Unit #4	Diamond Shamrock	11S	23E
Rock House Unit #1	Diamond Shamrock	11S	23E
Rock House Unit #3	Diamond Shamrock	11S	23E
Rock House Unit #5	Diamond Shamrock	11S	23E
Rock House Unit #5-A	Diamond Shamrock	11S	23E
Rock House Unit #9	Diamond Shamrock	11S	23E
Rock House Unit #2	Diamond Shamrock	11S	23E
Rock House Unit H6	Diamond Shamrock	11S	23E
Rock House Unit #11	Diamond Shamrock	11S	23E
Rock House Unit #10	Diamond Shamrock	11S	23E
Rock House Unit #8	Diamond Shamrock	11S	23E
Bitter Creek #1	Honolulu Oil	11S	23E
Rainbow Unit #5	Diamond Shamrock	11S	24E
Rainbow Unit #3	Diamond Shamrock	11S	24E
Rainbow Unit #1	Diamond Shamrock	11S	24E
Rainbow Unit #2	Diamond Shamrock	11S	24E
Rainbow Unit #2-A	Diamond Shamrock	11S	24E
Rainbow Unit #6	Diamond Shamrock	11S	24E
Oil Springs Unit #6	D. J. Stone	11S	24E
Robertson Fee #1	Jack R. Robinson	11S	25E
Evacuation Creek Fee #1	Continental Oil	11S	25E

Exhibit #3  
TRIGG DRILLING COMPANY  
Cause No. TGF-106

Operator	Well Location				Total Depth (ft)	Well Elevation (ft)	Total Depth Subsea (ft)	Deepest Formation Penetrated		Top of Mancos (ft)
	Twncshp	Range	Section	County				Name	Depth (ft)	
El Paso Nat. Gas	13S	17E	21	Carbon	3200	6468 DF	+3268	None		
H. M. Byllesby	13S	20E	5	Uintah	8520	6168 KB	-2352	Mancos	7970	7970
Sunray DX Oil Co.	13S	20E	12	Uintah	7316	5676 DF	-1640	Mancos	7222	7222
H. M. Byllesby Co.	13S	20E	5	Uintah	6913	6139 KB	- 774	None		
Texaco, Inc.	13S	20E	24	Uintah	LA			None		
Champlin Petro.	13S	20E	24	Uintah	7649	6315 GL	-1334	Mancos	7050	7050
Sinclair Oil & Gas	13S	21E	8	Uintah	3950	5936	+1986	Wasatch	2230	
Sinclair Oil & Gas	13S	21E	8	Uintah	7428	5945	-1483	Mancos	7367	7367
Texaco, Inc.	13S	21E	20	Uintah	12260	6261 KB	+5999	Entrada	12020	6959
Texaco, Inc.	13S	21E	27	Uintah	LA			None		
Texaco, Inc.	13S	21E	27	Uintah	LA			None		
Texaco, Inc.	13S	21E	27	Uintah	10,605	5678 KB	-4927	Entrada	10000	5727
Continental Oil Co.	13S	21E	27	Uintah	4215	5672	+1457	Mesaverde	3420	
Texaco, Inc.	13S	22E	11	Uintah	12073	6500 KB	+5573	None		
Sinclair Oil & Gas	13S	22E	14	Uintah	6600	6540 DF	- 60	Mancos	6590	6590
Texaco, Inc.	13S	22E	14	Uintah	LA			None		
Texaco, Inc.	13S	22E	14	Uintah	10782	6586 GR	-4196	Morrison	10716	6608
Sinclair Oil & Gas	13S	22E	18	Uintah	6500	6038	-4162	Mancos	6397	6110
Texaco, Inc.	13S	22E	22	Uintah	10537	6379 KB	-4158	None		
Texaco, Inc.	13S	22E	23	Uintah	13125	6632 KB	-6493	Precambrian	13060	6350
Texaco, Inc.	13S	22E	24	Uintah	16757	6451 KB		Morrison	10304	6155
Texaco, Inc.	13S	22E	26	Uintah	LA			None		
Texaco, Inc.	13S	22E	26	Uintah	10220	6575	-3645	Morrison	10044	6000
Texaco, Inc.	13S	22E	35	Uintah	LA			None		
Woodward Oil Co.	13S	23E	25	Uintah	6095	6478 GR	+ 383	Mancos	5725	5725
Skyline Oil Co.	13S	23E	26	Uintah	5852	6478 G	+ 626	Castlegate	5611	
Skyline Oil Co.	13S	23E	26	Uintah	4421	6437 RKB	+2016	Mesaverde	3862	
Skyline Oil Co.	13S	23E	26	Uintah	254	6441 GR	+6187	Green River	92	
Exxon Corp.	13S	23E	34	Uintah	9837	6390 GR	-3447	Dakota	9696	
Coseka Resources	13S	24E	35	Uintah	4177	6661	-2484	Mesaverde	3420	
Continental Oil Co.	13S	24E	15	Uintah	LA			None		
C. F. Raymond	13S	25E	17	Uintah	8840	7290 KB	-1550	Morrison	8714	4203
Coseka Resources	13S	25E	29	Uintah	5792	7511 GR	+1719	Mancos	4188	4188
Coseka Resources	13S	25E	35	Uintah	6120	7099 GR	+ 979	None		
Natural Gas Corp. of CA	13S	25E	36	Uintah	LA			None		
Beartooth Oil & Gas	13S	26E	7	Uintah	LA			None		
Coseka Resources	13S	26E	31	Uintah	5420	7869 GR	+2449	Mancos	5356	4981
Diamond Shamrock	12S	7E	7	Carbon	LA			None		

Exhibit #3  
TRIGG DRILLING COMPANY  
Cause No. TGF-106

Operator	Well Location			County	Total Depth (ft)	Well Elevation (ft)	Total Depth Subsea (ft)	Deepest Formation Penetrated		Top of Mancos (ft)
	Twnshp	Range	Section					Name	Depth (ft)	
Diamond Shamrock	12S	7E	8	Carbon	6500 MD	7752 GR	+1252	None		
Diamond Shamrock	12S	7E	10	Carbon	LA		None			
Three States Nat. Gas	12S	7E	22	Carbon	7917	8468 KB	+ 551	Salt Wash	7820	
Wexpro Company	12S	10E	21	Carbon	4110	7568	+3458	Sunnyside	3509	
Paul T. Walton	12S	12E	28	Carbon	3520	7343 KB	+3823	Middle	3410	
Wexpro Company	12S	12E	34	Carbon	3190	7407	+4217	Gilson	3096	
Wexdro Company	12S	12E	34	Carbon	3000	7417 KB	+4417	Kenilworth	2985	
Trigg Drilling	12S	13E	16	Carbon	9182	6768 KB	-2414	Mancos	6920	6920
Sun Oil Company	12S	14E	3	Carbon	4500	6256 KB	+1756	Wasatch	1720	
Great Lakes Nat. Gas	12S	14E	13	Carbon	LA			None		
Chorney Oil Company	12S	14E	11	Carbon	6025	7585 KB	+1560	Middle	3860	
Mobil Oil Corp.	12S	4E	13	Carbon	9802	7608 DF	-2194	Mancos	9446	9446
Sun Oil Company	12S	14E	14	Carbon	5891	7743 GR	+1852	None		
Natural Gas Corp. of CA.	12S	14E	15	Carbon	7204	7651 KB	+ 447	None		
Texaco, Inc.	12S	15E	11	Carbon	8450	5597	-2853	Mesaverde	5240	
Sun Oil Company	12S	15E	18	Carbon	5631	7456	+1825	Wasatch	2840	
Pacific Transmission	12S	15E	19	Carbon	7217	7523 GR	+ 306	Mesaverde	6700	
Pacific Transmission	12S	15E	22	Carbon	7006	7211 KB	+ 205	Mesaverde	7006	
Nat. Gas Corp. of CA	12S	15E	26	Carbon	6064	5966 KB	+ 98	Mesaverde	5052	
Pacific Transmission	12S	15E	27	Carbon	6405	6113 KB	+ 292	Mesaverde	6258	
Chevron Oil Company	12S	15E	29	Carbon	17261	6661 KB	-10600	Mississippian	17170	8302
Alamo Corp.	12S	15E	30	Carbon	5640	6826 DE	+1186	Wasatch	2165	
Mobil Oil Company	12S	15E	33	Carbon	5519	6364 KB	+ 845	Mesaverde	5300	
Getty Oil	12E	16E	28	Carbon	3094	6851 GR	+3757	Wasatch	2917	
El Paso Nat. Gas Co.	12S	16E	31	Carbon	2420	6149 DF	+3729	Wasatch	2215	
Getty Oil	12S	16E	32	Carbon	3276	6930 DF	+3654	Wasatch	2890	
Getty Oil	12S	16E	32	Carbon	2330	6035	+3705	Wasatch	1844	
El Paso Nat. Gas Co.	12S	16E	33	Carbon	1880	7288	+5348	None		
Getty Oil	12S	16E	33	Carbon	3112	6853	+3741	Wasatch	2836	
Getty Oil	12S	16E	33	Carbon	3621	7228	+3607	Green River	Surface	
Getty Oil	12S	16E	33	Carbon	3540	7270 DF	+3730	Wasatch	3200	
Getty Oil	12S	16E	33	Carbon	3550	7254 KB	+3704	Wasatch	3180	
Getty Oil	12S	16E	33	Carbon	17956	6900 KB	-11056	Mississippian	17408	9080
Getty Oil	12S	16E	34	Carbon	9373	6853 GR	-2520	Mancos	9310	9310
Reserve Oil & Gas Co.	12S	16E	34	Carbon	LA			None		
Reserve Oil & Gas Co.	12S	16E	35	Carbon	622	6768 GR	+6146	None		
Getty Oil	12S	16E	36	Carbon	4984	6738 KB	+1754	Wasatch	2780	



Exhibit #3  
TRIGG DRILLING COMPANY  
Cause No. TGF-106

Page 4 of 6

Operator	Well Location			County	Total Depth (ft)	Well Elevation (ft)	Total Depth Subsea (ft)	Deepest Formation Penetrated		Top of Mancos (ft)
	TwNShp	Range	Section					Name	Depth (ft)	
Getty Oil	12S	16E	36	Carbon	LA			None		
El Paso Nat. Gas Co.	12S	17E	20	Carbon	5136	6669 DF	+1533	Wasatch	5000 est.	
H. M. Byllesby & Co.	12S	20E	26	Uintah	7726	5648 KB	-2078	Mancos	7610 est.	7610
Champlin Petro. Co.	12S	20E	27	Uintah	LA			None		
Diamond Shamrock	12S	21E	1	Uintah	5827	5935 DF	+ 108	Mesaverde	5738	
Tenneco Oil Co.	12S	21E	13	Uintah	5546	6017 G	+ 471	Wasatch	3150	
Tenneco Oil Co.	12S	21E	15	Uintah	6528	6240 KB	- 288	Mesaverde	6003	
Tenneco Oil Co.	12S	21E	16	Uintah	6201	6176 G	- 25	Mesaverde	6044	
Gulf Oil Corp.	12S	21E	22	Uintah	LA			None		
Gulf Energy & Min.	12S	21E	22	Uintah	15666	6378 GR	-9288	Mississippian	15120	8227
Tenneco Oil Co.	12S	21E	22	Uintah	8294	6375 KB	-1919	Mancos	8177	8177
Diamond Shamrock	12S	22E	5	Uintah	7605	6263 DF	-1342	Wasatch	3599	
Sinclair Oil & Gas	12S	22E	5	Uintah	5787	6025 G	+ 238	Mesaverde	5575	
Delhi-Taylor Oil	12S	22E	17	Uintah	5817	6005	+ 190	Mesaverde	5156	
Amoco Production	12S	22E	22	Uintah	15082	5989	-9093	None		
Sinclair Oil & Gas	12S	22E	24	Uintah	7400	6193 G	-1207	Middle	7400	7330
Sky Hi Oil Company	12S	24E	14	Uintah		6206 DF		Wasatch	2045	
D. J. Stone	12S	24E	2	Uintah	3320	6193 KB	+2872	"A" zone	5515	5350
D. J. Stone	12S	24E	3	Uintah	5735	5890 G	+ 155	Wasatch	2060	
D. J. Stone	12S	24E	4	Uintah	3228	5848 G	+2620	Wasatch	2100	
D. J. Stone	12S	24E	5	Uintah	3829	6116 DF	2287	Mesaverde	3120	
Continental Oil	12S	24E	15	Uintah	4350	6395	+2024	Wasatch	1990	
D. J. Stone	12S	24E	16	Uintah	3303	6061 RT	+2758	Morrison	8208	4210
Synergy Resources	12S	25E	18	Uintah	8300	5799 KB	+2501	Mancos	4705	4705
D. J. Stone	12S	25E	18	Uintah	4886	6302 DF	+1416	Wasatch	2030	
Continental Oil	12S	25E	18	Uintah	2667	6278	+3611	Mesaverde	2695	
Continental Oil	12S	25E	18	Uintah	4170	6278	+2108	Mesaverde	2603	
Continental Oil	12S	25E	18	Uintah	3498	6184	+2686	Mancos	2780	2780
Humble Oil & Refin.	12S	10E	27	Carbon	3154	7426 DF	-4272	None		
McCarthy Gas & Oil	11S	12E	14	Duchesne	2240			Mesaverde	5610	
A. A. Seeligson, Jr.	11S	13E	20	Duchesne	5733	6860 KB	+1127	Wasatch	3783	
Pan American	11S	14E	12	Duchesne	4505	7033 DF	+2528	Mesaverde	7746	
Humble Oil & Refining	11S	14E	22	Duchesne	7773	7242 DF	- 531	Wasatch	4743	
Pacific Transmission	11S	14E	32	Duchesne	6435	6207 KB	- 228	Castlegate	6240	
Pacific Transmission	11S	14E	36	Duchesne	6383	5923 KB	- 460			

Exhibit #3  
TRIGG DRILLING COMPANY  
Cause No. TGF-106

Operator	Well Location			County	Total Depth (ft)	Well Elevation (ft)	Total Depth Subsea (ft)	Deepest Formation Penetrated		Top of Mancos (ft)
	Twncshp	Range	Section					Name	Depth (ft)	
Miami Oil Producers	11S	15E	2	Duchesne	4860	7136 KB	+2276	Mesaverde	6270	
Miami Oil Producers	11S	16E	3	Duchesne	5287	6930 KB	+1643	Wasatch	5172	
Diamond Shamrock	11S	16E	23	Duchesne	5487	5805 DF	+ 318	Wasatch	4136	
Humble Oil & Refining	11S	16E	29	Duchesne	7950	6569 DF	+1381	Basa Chapita	4727	
El Paso Nat. Gas	11S	16E	31	Duchesne	3808	6494 DF	+2691	Wasatch	3264	
Phillips Petroleum	11S	17E	5	Duchesne	6310	6332 DF	+ 22	Wasatch	4857	
Lion Oil Company	11S	17E	27	Duchesne	6004	5618 KB	- 386	North Horn	4950	
Cotton Petroleum	11S	19E	11	Uintah	8300	5622	-2678	Mesaverde	7350	
Diamond Oil & Gas	11S	19E	29	Uintah	8638	5681 KB	-2957	Mesaverde	6722	
Cotton Petroleum	11S	20E	10	Uintah	6900	5176 GR	-1724	Mesaverde	6150	
Belco Petroleum	11S	20E	29	Uintah	8830	5564 DF	-3266	Mesaverde	6500	
Diamond Shamrock	11S	21E	1	Uintah	7300	5567 GR	-3366	Mesaverde	6658	
Cotton Petroleum	11S	21E	3	Uintah	6974	5499	-1475	Mesaverde	6520	
Cotton Petroleum	11S	21E	4	Uintah	7232	5421	-1811	Mesaverde	6526	
Cotton Petroleum	11S	21E	5	Uintah	LA			None		
Pacific Gas Trans.	11S	21E	7	Uintah	9829	5552 KB	-4277	Mancos	9627	9627
Alamo Corporation	11S	21E	7	Uintah	8520	5497 KB	-3023	Mesaverde	7450	
Marathon Oil Co.	11S	21E	8	Uintah	5520	5524 KB	+4	Colton	3990	
Gilman Hill	11S	21E	8	Uintah	9600	5476 KB	-4124	Mancos	9512	9512
Cotton Petroleum	11S	21E	9	Uintah	LA			None		
Cotton Petroleum	11S	21E	10	Uintah	7000	5581 GR	-1419	Mesaverde	6698	
Gilman Hill	11S	21E	11	Uintah	2924	5617 GR	+2690	None		
							(temp. susp.)			
Cotton Petroleum	11S	21E	11	Uintah	8069	5692 KB	-2377	Mesaverde	6650	
Cotton Petroleum	11S	21E	12	Uintah	8000	5642 GR	-2358	Mesaverde	6568	
Humble Oil & Refining	11S	21E	14	Uintah	6736	5726 KB	-1010	Mesaverde	6704	
Cotton Petroleum	11S	21E	14	Uintah	LA			None		
Cotton Petroleum	11S	21E	15	Uintah	LA			None		
Cotton Petroleum	11S	21E	17	Uintah	LA			None		
Humble Oil & Refining	11S	21E	21	Uintah	9538	5743 DF	-3795	Wasatch	3790	
Great Lakes Nat. Gas	11S	21E	21	Uintah	5047	5766 KB	- 719	None		
Cotton Petroleum	11S	21E	23	Uintah	LA			None		
Enserch Exploration	11S	22E	3	Uintah	8310	5149 KB	-3161	Mesaverde	7164	
Diamond Shamrock	11S	22E	8	Uintah	7200	5608 GR	-1592	Mesaverde	6423	
Stanolind Oil & Gas	11S	22E	10	Uintah	5500	5300	- 200	Mesaverde	5240	
Diamond Shamrock	11S	22E	13	Uintah	5349	5370 KB	+ 21	Wasatch	3164	



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 15, 1982

Trigg Drilling Company, Inc.  
2122 Western Federal Svcs. Bldg.  
Denver, Colorado 80202

Re: Well No. Keel Ranch Unit #1-16  
Sec. 16, T. 12S, R. 13E.  
Carbon County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office November 13, 1981, from above referred to well, indicates the following electric logs were run: Induction-GR-SP, CBL, CNL-Density, Acoustilog, Welex frac finder. As of today's date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

We have a request for the above logs. It would be greatly appreciated if you would promptly send them in.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

Attachment  
Keel Ranch Unit #1-16  
Section 16-12S-13E  
Carbon County, Utah

Trigg Drilling Company, Inc.

Perforation Record

12,590-603', 2 JSPF  
12,420-432', 2 JSPF  
12,280-286', 2 JSPF  
12,294-304', 2 JSPF  
12,188-196' and 12,177-183' and 12,166-171', 2 JSPF  
11,600', 4 shots  
11,374-420', 2 JSPF  
4 sqz holes @ 8270'  
8084-8134'

Acid, Shot, Fracture, Cement Squeeze, Etc.

12,590-603', 1000 gal 7½% HCl, 77 bbl 2% KCl  
12,420-432', 1000 gal 7½% HCl  
12,280-286' and 12,294-304', 1000 gal 7½% HCl  
12,188-196' and 12,177-183' and 12,166-171', 1500 gal 7½% HCl and 80 RCN balls  
followed by 10 bbls Methanol and 79 bbls 2% KCl  
11,600', sqz w/300 sxs Class "G"  
11,374-420', 2000 gal 7½% HCl and 100 ball sealers  
4 sqz holes @ 8270', 300 sxs Class "G" disp w/2% KCl  
8084-8134', 2500 gal 7½% spearhead and 80 RCN balls followed by 40 bbls 2% KCl

Fracture

55,000 gal apollo gel w/24,500# 20-40 sd and 14,000# 20-40 bauxite



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

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Carbon County, Utah

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12,188-196' and 12,177-183' and 12,166-171', 2 JSPF  
11,600', 4 shots  
11,374-420', 2 JSPF  
4 sqz holes @ 8270'  
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followed by 10 bbls Methanol and 79 bbls 2% KCl  
11,600', sqz w/300 sxs Class "G"  
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4 sqz holes @ 8270', 300 sxs Class "G" disp w/2% KCl  
8084-8134', 2500 gal 7½% spearhead and 80 RCN balls followed by 40 bbls 2% KCl

Fracture

55,000 gal apollo gel w/24,500# 20-40 sd and 14,000# 20-40 bauxite

SUBMIT IN DUPLICATE\*

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION(See other in-  
structions on  
reverse side)

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Keel Ranch

8. FARM OR LEASE NAME

Keel Ranch Unit

9. WELL NO.

1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA

Section 16-12S-13E

12. COUNTY OR  
PARISH

Carbon

13. STATE

Utah

1a. TYPE OF WELL:

OIL  
WELL ☐GAS  
WELL ☒DRY ☐

Other \_\_\_\_\_

b. TYPE OF COMPLETION:

NEW  
WELL ☐WORK  
OVER ☐DEEP-  
EN ☒PLUG  
BACK ☐DIFF.  
RESVR. ☐

Other \_\_\_\_\_

2. NAME OF OPERATOR

Trigg Drilling Company, Inc

3. ADDRESS OF OPERATOR

2122 Western Fed.Svgs.Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1468' FEL, 1800' FNL

At top prod. interval reported below as above

At total depth as above

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

2/28/81

16. DATE T.D. REACHED

7/6/81

17. DATE COMPL. (Ready to prod.)

10/23/81

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

6755 GR

6774 KB

19. ELEV. CASINGHEAD

6755

20. TOTAL DEPTH, MD &amp; TVD

12,646

21. PLUG, BACK T.D., MD &amp; TVD

8242

22. IF MULTIPLE COMPL.,  
HOW MANY\*23. INTERVALS  
DRILLED BY

ROTARY TOOLS

all

CABLE TOOLS

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

8084-8134' Mancos

25. WAS DIRECTIONAL  
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction-GR-SP, CBL, CNL-Density, Acoustilog, Welex frac finder

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	1690'	12 1/4"	300 sxs Halco lite & 200 sxs Class "G"	
5 1/2"	17#	12,646'	7-7/8"	370 sxs 50-50 poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	8230'	

31. PERFORATION RECORD (Interval, size and number)

See attached

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See	attached

33.\*

## PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
SI		Flowing				SI	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/23/81	7		→	tr	129.5	0	-
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
570	0	→	tr	444	0		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented

TEST WITNESSED BY

C. Baldes

35. LIST OF ATTACHMENTS

Wellbore sketch and perf. record

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

*Ralph E. Harvey*

TITLE

Division Manager

DATE 11/13/81

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on Items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), of completion and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see Item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and nature(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CURSION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	NEAR. DEPTH	TRUE VERT. DEPTH
Ferron and Dakota			All perforated intervals tested tight except for 12,166-12,196' which tested gas at 2.6 MMCFD but depleted in three days.	Ferron  Dakota	11,260  12,000	

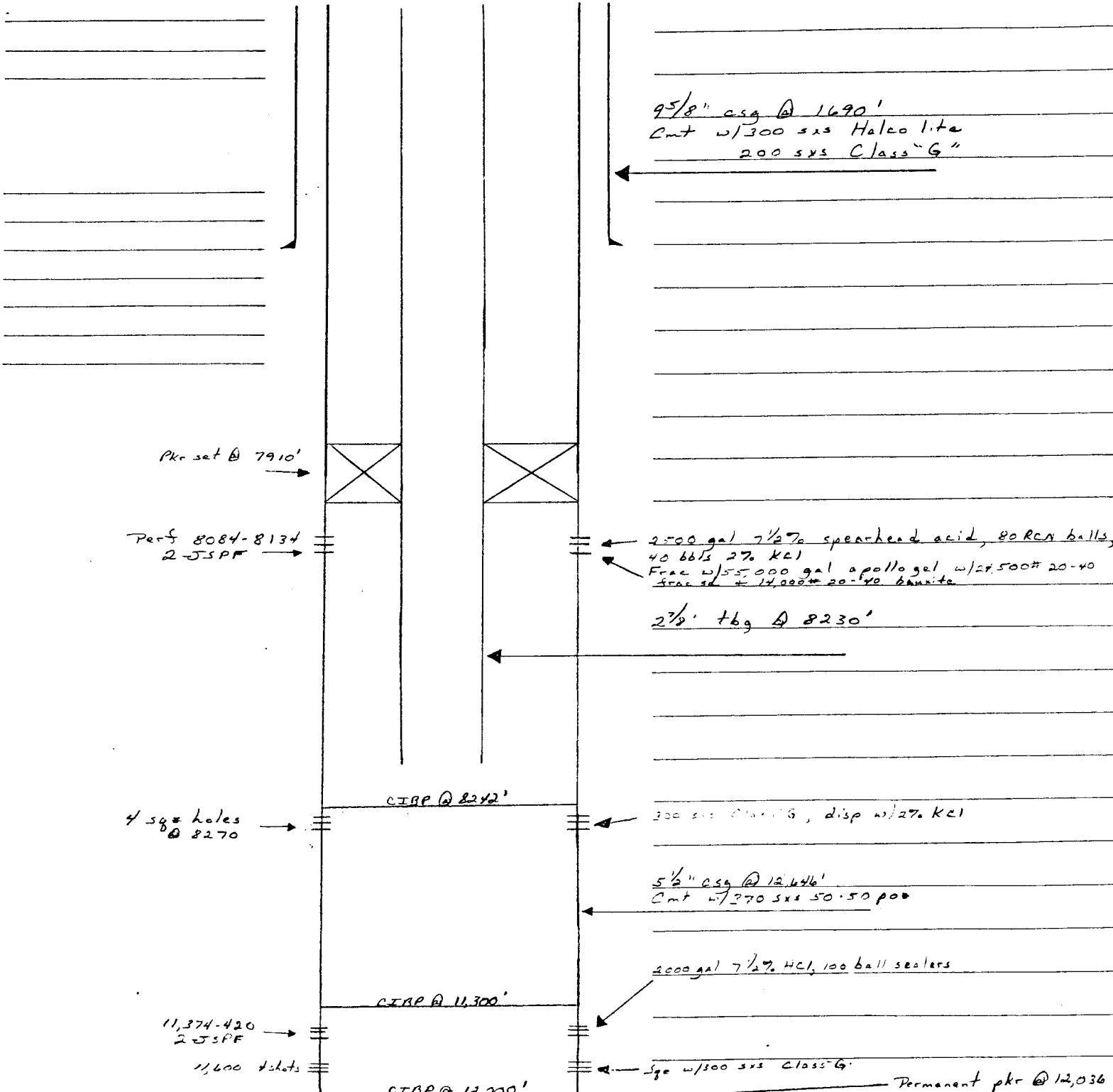


# WELL DATA SHEET

OPERATOR Energy Service Co. WELL Kearl Ranch Unit #1-116  
 FIELD Kearl Ranch Unit COUNTY Carbon STATE Utah  
 LOCATION Sec 14 T2S - R3E  
 ELEV. 6744 KB 6755 G.L. SPUD DATE 2/28/81 COMP. DATE 10/23/81  
 T.D. 12,646 P.B.T.D. 9230 FORM. Manco

DRAWING NOT TO SCALE

## COMPLETION & WORKOVERS



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Trigg Drilling Company, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 2122 Western Federal Savings Bldg., Denver, Colorado 80202		7. UNIT AGREEMENT NAME Keel Ranch
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1468' FEL, 1800' FNL		8. FARM OR LEASE NAME Keel Ranch Unit
14. PERMIT NO.		9. WELL NO. 1-16
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6755 GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 16-T12S-R13E
		12. COUNTY OR PARISH Carbon
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>Monthly Report - June, 1981</u> <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

May 31, 1981 - Drilling @ 10,631'

June 30, 1981 - Drilling @ 12,450'

RECEIVED  
JUL 10 1981DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Rhugh E. Hawley TITLE Division Engineer DATE July 7, 1981

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



SUITE 2122 • 718 17th ST. • WESTERN FEDERAL SAVINGS BLDG.  
DENVER, COLO. 80202

May 5, 1981

TELEPHONE  
303/623-0070

JACK E. TRIGG  
JOE DAN TRIGG

State of Utah  
Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Re: Keel Ranch Unit #1-16  
Section 16-T12S-R13E  
Carbon County, Utah

Gentlemen:

Enclosed is a sundry notice for the above-captioned well, depicting the resuming of operations on May 2, 1981.

Please do not hesitate to contact me if you should have any questions.

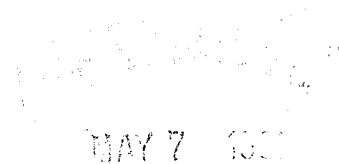
Sincerely,

TRIGG DRILLING COMPANY, INC.

Hugh E. Harvey, Jr.  
Division Engineer

HEH/ck

enclosure



DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b>		5. <b>LEASE DESIGNATION AND SERIAL NO.</b>	
2. <b>NAME OF OPERATOR</b> Trigg Drilling Company, Inc.		6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b>	
3. <b>ADDRESS OF OPERATOR</b> 2122 Western Federal Savings Bldg., Denver, Colorado 80202		7. <b>UNIT AGREEMENT NAME</b> Keel Ranch	
4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1468' FEL, 1800' FNL		8. <b>FARM OR LEASE NAME</b> Keel Ranch Unit	
14. <b>PERMIT NO.</b>		9. <b>WELL NO.</b> 1-16	
15. <b>ELEVATIONS</b> (Show whether DF, RT, GR, etc.) 6755' GR		10. <b>FIELD AND POOL, OR WILDCAT</b> Wildcat	
		11. <b>SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> 16-12S-13E	
		12. <b>COUNTY OR PARISH</b> Carbon	13. <b>STATE</b> Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

FRACTURE TREATMENT

REPAIRING WELL

SHOOTING OR ACIDIZING

ALTERING CASING

(Other)

Resume operations

☐  
☐  
☐  
☐  
☒
(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operations on the above lease were resumed May 2, 1981 at 6:00 a.m. Veco Drilling Company, Rig #9, is rigged up on the hole. BOP's and surface pipe were tested to 1100 psi, and the surface pipe plug was drilled.

18. I hereby certify that the foregoing is true and correct

SIGNED

*High E. Hawley*

TITLE

Division Engineer

DATE

May 5, 1981

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

17 1981

DIVISION OF  
OIL, GAS & MINING

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

*not found*

Well Name & Number Keel Ranch Unit #1-16  
Operator Trigg Drilling Company, Inc. Address 2122 Western Federal Svgs. Bldg.  
Denver, Colorado 80202  
Contractor Veco Drilling Co. Address Box 1705  
Grand Junction, Colorado 81501  
Location SW 1/4 NE 1/4 Sec. 16 T: 12S R. 13E County Carbon

Water Sands

	<u>Depth</u>	<u>Volume</u>	<u>Quality</u>
	From To	Flow Rate or Head	Fresh or Salty
1.	NONE		
2.			
3.			
4.			
5.			

(Continue of reverse side if necessary)

Formation Tops

Remarks

Hole was re-entered and deepened from 9180' to 12,646'.

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Keel Ranch Unit

8. FARM OR LEASE NAME

Keel Ranch Unit

9. WELL NO.

1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLE. AND  
SURVEY OR AREA

Section 16-T12S-R13E

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

1.

OIL ☐ GAS ☒ OTHER ☐

2. NAME OF OPERATOR

Trigg Drilling Company, Inc.

3. ADDRESS OF OPERATOR

2122 Western Fed. Svgs. Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)  
At surface

1468' FEL, 1800' FNL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6755' GR

16.

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Progress Report ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Progress Report:

8/1/81 Completing

PU pkr. TIH to 12,367'. Set pkr. NU tree. Test pkr to 2000#, ok. SWI.

8/31/81 SI. WO evaluation.

*Received  
10-7-81*

18. I hereby certify that the foregoing is true and correct

SIGNED Douglas HarveyTITLE Division EngineerDATE 10/5/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

November 6, 1981

Trigg Drilling Company  
2122 Western Fed. Svcs.  
Denver, Colorado 80202

Re; WELL NO. Keel Ranch Unit #1-16  
Sec. 27, T. 41S R. 26E.  
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Recompletion Report and Log for the above mentioned well, is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicated and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

A handwritten signature in cursive script, reading "Sandy Bates".

SANDY BATES  
CLERK

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING**SUNDRY NOTICES AND REPORTS ON WELLS**(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Keel Ranch Unit

8. FARM OR LEASE NAME

Keel Ranch Unit

9. WELL NO.

1-16

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 16-12S-13E

12. COUNTY OR PARISH

Carbon

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Trigg Drilling Company, Inc.

3. ADDRESS OF OPERATOR

2122 Western Federal Svgs. Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1468' FEL, 1800' FNL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6755' GR

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON\* ☐REPAIR WELL ☐CHANGE PLANS ☐(Other) ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT\* ☐(Other) ☐Progress Report ☒(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Progress Report:

1/1/82 Waiting on pipeline.

1/31/82 Waiting on pipeline.

**RECEIVED**

MAR 05 1982

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

*Paul C. W. [Signature]*

TITLE

Division Engineer

DATE

2/26/82

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



RECEIVED  
JUN 22 1982

Exhibit #3  
TRIGG DRILLING COMPANY  
Cause No. TGF-106

DIVISION OF  
OIL, GAS & MINING

Name of Well	Operator	Well Location			County	Total Depth (ft)	Well Elevation (ft)	Total Depth Subsea (ft)	Deepest F
		Twnshp	Range	Section					Penetr Name
T. F. Kearns #1	Three States Nat. Gas	13S	6E	13	Carbon	5823	8622	-2799	Ferron
Federal #1-23	Superior Oil Co.	13S	6E	23	Carbon	362	9059 G	+8697	Blackhawk
State #1 (Elbow Unit 1)	Stanolind Oil & Gas	13S	7E	15	Carbon	6502	9214	+2712	Ferron
Kaiser Steel #1	Energetics Inc.	13S	7E	16	Carbon	LA			None
Utah Fuel Fee #7	Cordillera Corp.	13S	7E	17	Carbon	4250	8065 KB	+3815	Ferron
Utah Fuel Fee #8	Cordillera Corp.	13S	7E	19	Carbon	4390	8300 KB	+3910	Ferron
Clear Creek Unit #18	Cordillera Corp.	13S	7E	20	Carbon	LA			None
Kaiser Steel #1	Energetics Inc.	13S	7E	21	Carbon	5915	8200 GR	+2285	Cedar Mount
Utah State ML 1256 #1	Cordillera Corp.	13S	7E	29	Carbon	4850	8595 G	+3745	Ferron
Utah Fuel Fee #4	Cordillera Corp.	13S	7E	30	Carbon	5820	9305 DF	+3485	None
Utah Fuel Fee #5	Cordillera Corp.	13S	7E	31	Carbon	6225	9745 KB	+3520	None
Utah Fuel Fee #2	Cordillera Corp.	13S	7E	32	Carbon	4785	8771 KB	+3986	Ferron
Utah Fuel Fee #3	Cordillera Corp.	13S	7E	32	Carbon	4399	8459 KB	+4060	Ferron
Coal Creek State #2	R. W. Pease	13S	11E	15	Carbon	4720	6310	+1590	Dakota
Federal #1	S. D. King & Son	13S	11E	19	Carbon	4885	6858 DF	+1965	Cedar Mount
Federal #5	Williard Pease O&G	13S	11E	19	Carbon	4900	6750 KB	+1850	Cedar Mount
Price Federal #3	Williard Pease O&G	13S	11E	19	Carbon	5015	6695 KB	+1680	Cedar Mount
Coal Creek #1	Williard Pease O&G	13S	11E	28	Carbon	4300	6182 KB	+1882	None
Mt. Bartles Fee #1	Mt. Fuel Supply Co.	13S	14E	9	Carbon	9864	9268 KB	- 376	Mancos
Preston-Nutter 1	Gulf Oil Corp.	13S	14E	24	Carbon	2685			Green River
Claybank Springs Unit #2	Alamo Corp.	13S	15E	11	Carbon	5610	7295 DF	+1685	Wasatch
Peter's Point Unit	Getty Oil	13S	16E	1	Carbon	4754	6761 KB	+2007	Wasatch
Beard #1-3	Getty Oil	13S	16E	3	Carbon	3100	6821 GR	+3721	Wasatch
Jack Canyon Unit #2	El Paso Nat. Gas Co.	13S	16E	7	Carbon	6201	6949 DF	+ 748	Wasatch
Peter's Point Federal #1-10	Chorney Oil Co.	13S	16E	10	Carbon	5105	6750 KB	+1714	Mancos
Peter's Point #6	El Paso Nat. Gas Co.	13S	16E	11	Carbon	4685	6797 KB	+2112	Wasatch
Peter's Point #13	Getty Oil Co.	13S	16E	12	Carbon	3750	5505 GR	+1755	Wasatch
Peter's Point #14-9	Getty Oil Co.	13S	16E	14	Carbon	3200	6685 KB	+3485	Wasatch
Peter's Point #4	Getty Oil Co.	13S	16E	24	Carbon	5140	7015 KB	+1875	None
Peter's Point #5-14	Getty Oil Co.	13S	17E	5	Carbon	3300	5160 KB	+1860	Middle
Peter's Point #1 C.S.	Getty Oil Co.	13S	17E	6	Carbon	8309	6715 KB	+1594	Mesaverde
Peter's Point Unit #10	Kimbark Operating	13S	17E	6	Carbon	4846	6744 KB	+1898	Chadita
Peter's Point #14	Reserve Oil, Inc.	13S	17E	7	Carbon	1678	5735 GR	+4057	Wasatch
Peter's Point Unit	Getty Oil	13S	17E	8	Carbon	4833	6658 KB	+1852	Wasatch
Peter's Point Unit #15	Getty Oil	13S	17E	8	Carbon	LA			None
Peter's Point #7	El Paso Nat. Gas	13S	17E	18	Carbon	5147	6933 DF	+1786	Wasatch

TRIGG DRILLING COMPANY  
Chromatographic Gas Analysis Report  
Exhibit #8

Well Name: Keel Ranch #1-16  
Operator: Trigg Drilling Company  
Location: Section 16, T12S, R13E  
Carbon, Utah  
Date Sampled: 12-18-81  
Type of Sample: Spot

Comp.	Mole%
Propane	2.5380
1-Butane	0.5969
N-Butane	0.9489
I-Pentane	0.3507
N-Pentane	0.2649
Hexane +	0.2086
CO2	0.1979
Ethane	4.5971
Nitrogen	0.1803
✓ Methane	90.1097
Totals	100.0

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JUN 22 1982

DIVISION OF  
OIL, GAS & MINING

Specific Gravity: 0.643      Observed SP. GR. 0.639  
BTU/CU.FT: 1123.27      Observed BTU/CU.FT: 1127  
Heating Value @ 30 In. HG., 60 DEG F. WET

Data Source: Mountain Fuel Supply  
625 Connecticut Ave.  
P.O. Box 1129  
Rock Springs, WY 82901  
(307) 362-5611

TRIGG DRILLING COMPANY  
Oil Production Summary  
Exhibit #9

KEEL RANCH UNIT  
SW, NE, Section 16, Township 12S, Range 13E  
Carbon County, Utah

<u>Month</u>	<u>Year</u>	<u>Days Produced</u>	<u>Barrels Of Oil</u>	<u>Avg. Daily Oil Prod. Barrels</u>
February	1982	4	5.0	1.25
March	1982	25	35.0	1.40
April	1982	21	2.5	0.12

During 50 days of production an average of 0.85 barrels of oil was produced.

Data Source: Report of Operations and Well Status Report  
Division of Oil and Gas Conservation  
State of Utah

resource  
services  
international,  
inc.

1380 LAWRENCE, SUITE 600 • DENVER, COLORADO 80204 • (303) 623-1802

June 21, 1982

State of Utah  
Natural Resources & Energy  
Oil, Gas & Mining Division  
4241 State Office Building  
Salt Lake City, UT 84114

Attn: Paula J. Frank/Cleon B. Feight

Dear Sir:

Enclosed are the following exhibits to be used in Cause  
T6F #106.

- 1) Base Map
- 2) Lease Base Map
- 3) Tabular Well Data
- 4) Structural Contour Map
- 5) North-South Cross Section
- 6) West-East Cross Section
- 7) Insitu Permeability Data
- 8) Chromatographic Gas Analysis Report
- 9) Oil Production Summary

Thank you.

RECEIVED

JUN 23 1982

DIVISION OF  
OIL, GAS & MINING

Submitted,

*Resource Services International, Inc.*

RESOURCE SERVICES INTERNATIONAL, INC.

Trigg Drilling Company  
Insitu Permeability Data  
Cause TGF #106  
Exhibit #7

Page 1 of 13

Determination of insitu permeability was taken from two complete tests, 1) the original drill stem test over the Mancos interval and 2) a shut in pressure build-up test of 160 hours run in June, 1982. The calculations from both tests concluded that the insitu permeability was definitely below the 0.1 millidarcy criterion set forth by the FERC. Information from both tests are presented.

*B. E. W.*

B. E. Whitham, T.D.C.

KEITH M. KERSCH

- CONSULTING PETROLEUM ENGINEER

433 W. EASTER AVE.

LITTLETON, COLORADO 80120

(303) 797-8196

May 25, 1982

Bill Donovan  
Resource Services International  
1380 Lawrence, Suite 600  
Denver, Colo 80204

DS  
8097'-8140"

Re: Keel Ranch 1-16 Drillstem test

Dear Bill:

I have examined the referenced drillstem test over the interval from 8097 ft to 8140 ft. The test was conducted nearly 20 years ago so the data is not complete. In spite of this, I feel that the permeability exhibited by this well is below 0.1 md, which qualifies it to be classed as a tight formation gas well.

From the test I calculated a permeability of 0.053 md and an effective skin factor of  $s' = 0.063$ . From the test configuration I calculated that wellbore storage should die out by 1.3 hours. The test lasted 1.5 hours so the data should be analyzable by Horner plot.

Figure 1 shows Horner plots of the first and second shut in periods. This plot uses a pseudotime function which attempts to account for rate variations. The method is discussed in more detail on the attached sheets.

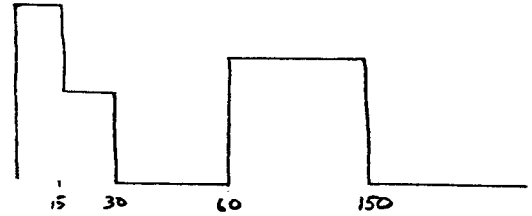
If we assume a skin factor of -5 (typical of a small fracture treatment), the increased wellbore storage coefficient would cause storage to last about 13 hours during a normal fall off test. A 72 hour buildup test should yield results that would enable us to calculate a reasonable insitu permeability.

Sincerely  
Keith M Kersch

## ANALYSIS OF D.S.T.

The assumed rate history used in the analysis is :

Time of rate change (min)	<u>15</u>	30	60	150	340
rate (MCF/D)	<u>1233</u>	670	0	850	0



This rate history can be used to calculate a pseudo time function as follows

$$\log(T) = \frac{1}{q_N} \sum_{i=1}^n (q_i - q_{i-1}) \log(t - t_{i-1})$$

This time function is plotted in figure 1. Notice how the first and second shut-in periods do not extrapolate to the same pressure. This is typical of extreme depletion (which does not seem realistic).

$$\frac{kh}{\mu} = \frac{1637 q z T}{2 m(p_i)}$$

$$T = 180^\circ\text{F} = 640^\circ\text{R} \quad \gamma_g = .6 \quad T_r = 1.787 \quad P_r = 5.354$$

$$z = .87$$

$$\frac{kh}{\mu} = \frac{1637 (850) (.87) 640}{2 \cdot 1140 \cdot 3600} = 94.38 \text{ using 2nd shut in}$$

$$\frac{kh}{\mu} = \frac{1637 (670) (.87) 640}{2 \cdot 2040 \cdot 4800} = 31.18 \text{ using initial shut in}$$

Using data from the 2nd shut in calculate skin:

The well was perforated  $8084 - 8134 = 50$  feet

The DST interval was  $= 43$  ft

The logs show 26 feet of good porosity.

$$\mu = 0.024 \text{ cp}$$

$$k = 94.38 \frac{.024}{43} = 0.053 \text{ md}$$

permeability would be 0.079 md if  $h = 26$  ft is used.

$$s' = 1.1513 \left\{ \frac{\Delta p_{im}}{m} - \log \frac{k}{\phi \mu c r_w^2} + 3.2275 \right\}$$

$$s' = 1.1513 \left\{ \frac{3260 - 122}{1140} - \log \frac{.053 \cdot 3600}{.1 (.025) (.3)^2} + 3.2275 \right\}$$

$$s' = .063$$

check to see if test was run long enough to be out of wellbore storage-controlled region.

First

$$B_g = .00504 \frac{zT}{p} \quad \text{bbt/scf} = .00504 \frac{.87(640)}{3600} = .0007795 \frac{\text{bbt}}{\text{scf}}$$



Trapped volume below shut in valve

$$V = 43 \text{ feet} \frac{(7\frac{7}{8})^2}{1030} = 2.589 \text{ bbls}$$

assume compressibility is approximated by  $\frac{1}{P}$

$$C = V_c = 2.589 \frac{1}{3600} = .000719 \text{ bbl/psi}$$

Time to end of storage is given by

$$t = \frac{170,000 C e^{.145}}{kh/\mu}$$

$$t = \frac{170,000 (.000719) (e^{.146063})}{94.38} = 1.31 \text{ hours}$$

since the 2nd buildup lasted 1.5 hours, it should be analyzable.

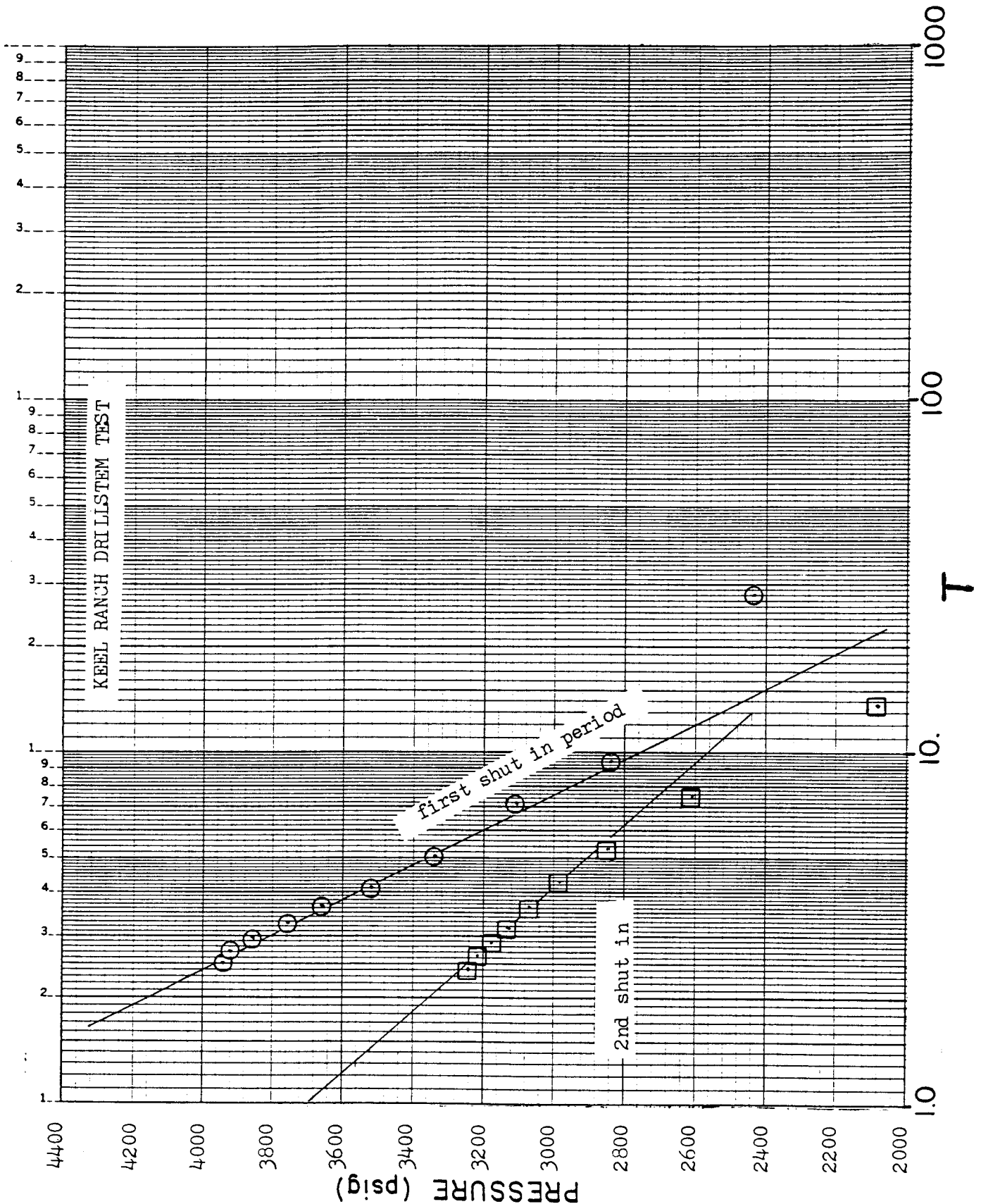
KEITH M. KERSCH

- CONSULTING PETROLEUM ENGINEER

433 W. EASTER AVE.

LITTLETON, COLORADO 80120

(303) 797-8196



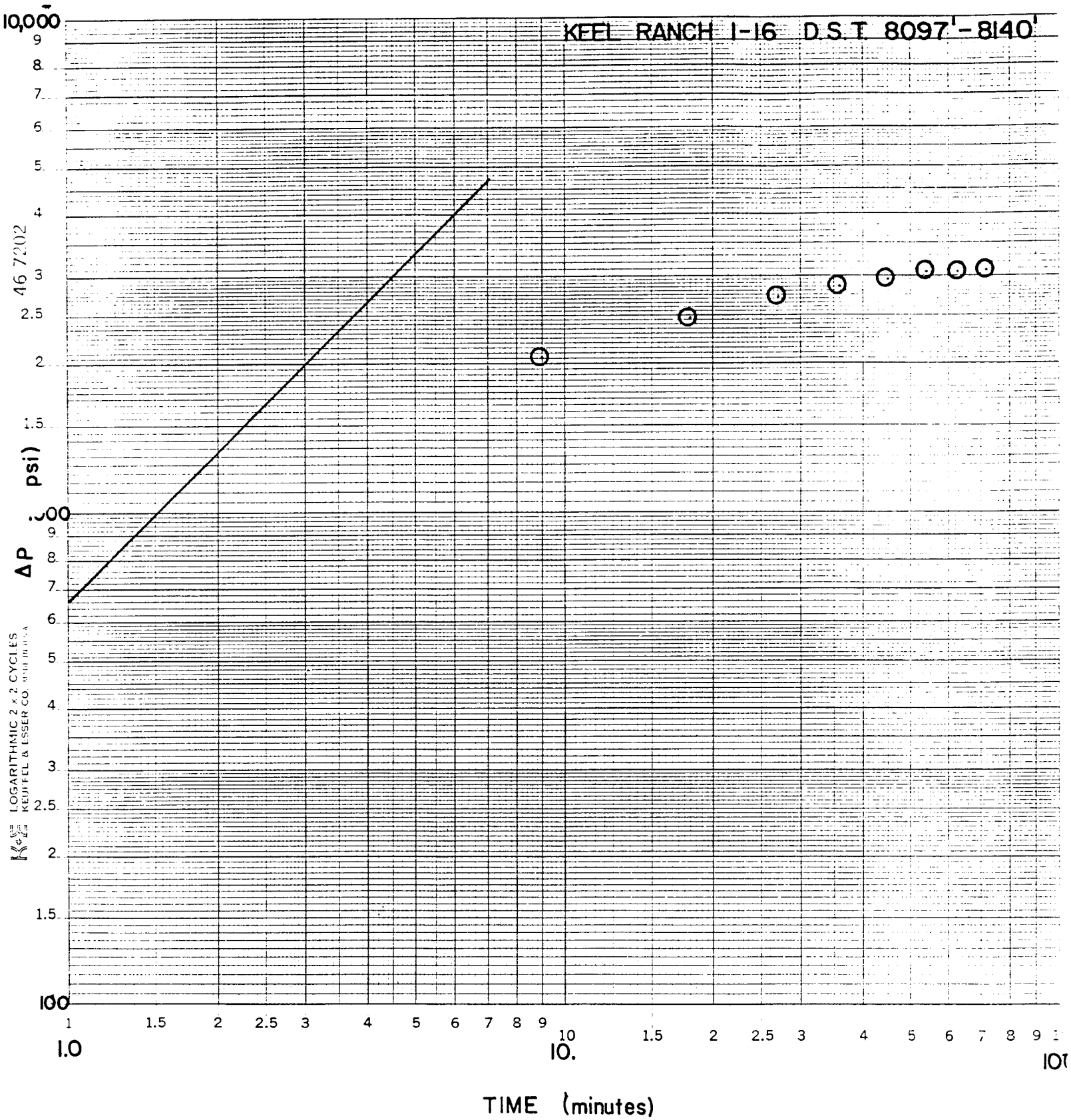
KEITH M. KERSCH

- CONSULTING PETROLEUM ENGINEER

433 W. EASTER AVE.

LITTLETON, COLORADO 80120

(303) 797-8196



Flow Time	1st 30 Min	2nd 90 Min
Closed In Press. Time	1st 30 Min	2nd 90 Min
Pressure Readings	Field	Office Corrected
Depth Top Gauge	8075' Ft.	NO Blanked Off
BT. P.R.D. No.	202	12 Hour Clock
Initial Hydre Mud Pressure	5000	5009
Initial Closed in Pressure	3805	3949
Initial Flow Pressure	324 171	519 399
Final Flow Pressure	229 114	187 122
Final Closed In Pressure	3260	3267
Final Hydro Mud Pressure	1.943	4928
Depth Gauge	8136' Ft.	YES Blanked Off
BT P.R.D. No.	326	12 Hour Clock
Initial Hydro Mud Pressure	5033	5072
Initial Closed In Pressure	3961	3965
Initial Flow Pressure	359 203	652 388
Final Flow Pressure	265 132	214 134
Final Closed In Pressure	3293	3273
Final Hydro Mud pressure	4978	4961

Trigg Drilling Company  
Insitu Permeability Data  
Cause TGF #106  
Exhibit 7  
Page 9 of 13

Well: Keel Ranch 1-16  
Operator: Mountain Fuel Supply/Trigg Drilling Co.  
Location: Section 16  
T12S1R13E  
Carbon County, Utah  
Date: 12-30-63  
Service Company Performing Test: Halliburton, Inc.  
Vernal, Utah  
Tested Interval: 8097-8140  
Formation Tested: Mancos  
Hole Size: 7 7/8" diameter  
Drill collars above tester: 2¼" ID - 430 Feet  
Drill pipe above drill collars: 4½" F.H. 16.6#/ft.

Trigg Drilling Company  
 Insitu Permeability Data  
 Cause TGF #106  
 Exhibit #7  
 Page 10 of 13

Gauge #202      Depth 8075

First Flow Period		First Shut-in Period		Second Flow Period		Second Shut-in Period	
Time	Pressure	Time	Pressure	Time	Pressure	Time	Pressure
Min.	psig	Min.	psig	Min.	psig	Min.	psig
0	519	0	187	0	399	0	122
5	324	0	2416	15	187	9	2180
10	273	6	2839	30	151	18	2607
15	239	9	3115	45	137	27	2843
20	216	12	3329	60	132	36	2985
25	200	15	3329	75	128	45	3072
30	187	18	3654	90	122	54	3129
		21	3758			63	3170
		24	3845			72	3206
		27	3907			81	3240
		30	3949			90	3267

Production Rates

First Flow Period:    1,233    MCFPD  
                               670    MCFPD  
 Second Flow Period:    850    MCFPD

## TRIGG DRILLING COMPANY, INC.

Shut In Pressure Build Up

June 4 - 12, 1982

WELL NAME: Keel Ranch Unit #1-16OPERATOR: Trigg Drlg.Co., Inc.

- 1) Specific gravity of gas (SG) = .643
- 2) Reservoir temperature (TF) = Tf 155 °F + 460 = 615 °R
- 3) Pressure at standard conditions  
(Use 14.7 in lieu of altitude or state corrections  
PATM = (14.7 - .0005 X AASL            ft.) = 14.7 psia
- 4) Initial Reservoir Pressure = 5600 psia
- 5) Final flowing pressure (Pwf) = 863 psia
- 6) Average Reservoir Pressure (Pa) = (Pi 5600 + 863 )/2 = 3232 psia
- 7) Pseudo Critical Pressure (Pc) (ref. Fig. 4-30) = 670 psia
- 8) Pseudo Critical Temperature (Tc) (ref. Fig. 4-30) = 372 °R
- 9) Pseudo reduced Pressure (Pr) = Pa 3232 / Pc 670 = 4.82
- 10) Pseudo reduced Temperature (Tr) = Tf 615 / Tc 372 = 1.653
- 11) Gas Deviation Factor (Z) ref. Fig. 4-25, @ Pr, Tr = 1.079
- 12) Gas Viscosity (Mg) ref. Fig. 4-43, 4-44  
Mg = Mg IATM            \* M/Mi            = .02 cp.
- 13) Gas Formation Volume Factor Bg (RCF/SCF)  
Bg = Z 1.079 \* Tf 615 °R \* 14.7 P<sub>sc</sub> psia/T<sub>sc</sub> 520 °R  
\* Pa            psia = .0058  $\frac{\text{RCF}}{\text{SCF}}$
- 14) Test Production Rate (Q) = 24,000 SCFD
- 15) Equivalent Liquid Rate of Gas Flow  $\frac{\text{RCF}}{\text{SCF}}$   $\frac{\text{RCF}}{\text{RB}}$   
Qeq = Qg 24,000 SCFD \* Bg .0058  $\frac{\text{RCF}}{\text{SCF}}$  / 5.615 RB = 24.79 RBPD
- 16) Porosity (Ø) fraction = 12%
- 17) Net Zone Thickness (h) = 50 FT
- 18) Wellbore Radius (Rw) =            FT
- 19) Flow time (Tp) = 120,480 Min

Data from Early Time (Wellbore) Match

$\frac{Kh/\mu}{f}$  Wellbore =  $\frac{1000}{Q}$   $\Delta P_f = .7 \times 10^{-7}$  Group Factor = 1750 AP (PSI)

(1) Wellbore Storage Factor Calculation (Uncorrected)  
 $\frac{Q}{20}$  RBPB  $\times .7$  Group Factor =  $f = .008$   
 $f = \frac{\Delta P}{AP} \frac{1750}{PSI}$  (In Match Range)

(2) Wellbore Storage Correction Factor  
 $\frac{(P_i) Af_{1100} PSI + (P_2) Af_{2000} PSI}{2}$   
 $CF = \frac{P_i - 5600}{PSI}$  =  $CF = .28$

(3) Corrected Wellbore Storage Factor (fc) Calculation  
 $f_c = f \times CF = .008 \times .28$  =  $f_c = .0022$

(4) Permeability Calculation: (Wellbore) Early Time Match  
 $K_{Wellbore} = \frac{Kh/\mu}{f} \frac{1000}{Q} \times f_c \times \frac{\mu}{h} \frac{.02}{50} \frac{CPS}{FT.}$  =  $K = .001$  Mds

(5) Permeability Calculation: (Formation)  
 Late Time Afterflow Curve Match After Breakaway Point  
 $K_{Formation} = \frac{Kh/\mu}{f} (F_m) \times f_c \times \frac{\mu}{h} \frac{CPS}{FT.}$  =  $K$  Mds

(6) Slope Calculations (Horner Straight Line)  
 $(162.6) (Q \frac{20}{RBPB}) \times \mu (.02 \frac{CPS}{FT.})$  =  $M = 1,300$  PSI/LOG CYCLE  
 $M = \frac{(K \times .001 \text{ Mds}) \times (h \times 50 \text{ ft})}{(162.6)}$

(7) Damage Ratio (DR) Calculation:  
 $DR = \frac{(P_i - P_{wf})}{M \frac{PSI}{Cycle} \left[ \log \frac{K \times Mds \times T_p \times Mins.}{\phi \times \mu \times Cps \times c \times 10^{-4} \times r_w \times Ins.^2} - 2.85 \right]}$  =  $DR$  Dim.

(8) Pressure Drop Due To Damage ( $\Delta P_{do}$ )  
 $\Delta P_{do} = (P_i - P_{wf}) - \left( \frac{(P_i - P_{wf})}{DR} \right)$  =  $\Delta P_{do}$  PSI

(9) Damage No. ( $S'$ ) =  $\left( \frac{\Delta P_{do}}{0.87M \frac{PSI}{Log Cycle}} \right)$  =  $S'$  Dim.

(10) Effective Wellbore Radius  
 $r_w' = r_w \times e^{S'}$  =  $r_w'$  ft

(11) Half Fracture Length  $X_f = 2 \times r_w' \times e^{S'}$  =  $X_f$  Ft.

(12) Radius of Investigation Calculation (R.i.)  
 $R.i. = \sqrt{\frac{K \times Mds \times T_p \times Mins.}{57,600 \phi \times \mu \times CPS \times c \times 10^{-4}}}$  =  $R_i$  ft

(13) Expected Production Rate After Damage Cleanup  
 $\left. \begin{matrix} \text{Rate } (Q_p) = \text{D.S.T. Rate } (Q) \times DR \\ \text{Mcf/d} \\ \text{Bbls/day} \end{matrix} \right\}$  =  $\frac{Q_p \text{ Mcf/d}}{Q_p \text{ Bbls/d}}$

(14) Expected Production Rate With Stimulated Wellbore at Psuedo State Decline  
 $\left. \begin{matrix} \text{Rate } (Q_p) = \text{D.S.T. Rate } (Q) \times \frac{(Kh/\mu)_{Formation}}{(Kh/\mu)_{Wellbore}} \\ \text{Mcf/d} \\ \text{Bbls/day} \end{matrix} \right\}$  =  $\frac{Q_p \text{ Mcf/d}}{Q_p \text{ Bbls/d}}$   
 \* For Corrected Values Use  $f_c$ .



$$M_2 = P(0 \text{ Log Cycle}) \frac{4000}{2500} \text{ PSI}$$

$$= P(1 \text{ Log Cycle}) \text{ PSI}$$

$$M_1 = P(0 \text{ Log Cycle}) \text{ PSI}$$

$$= P(1 \text{ Log Cycle}) \text{ PSI}$$

$$= \frac{1500}{\text{PSI/Log Cycle}}$$

$$= \frac{\text{PSI}}{\text{Log Cycle}}$$

Pressure Gradient (PG<sub>r</sub>)

$$PG_r = P_i \frac{4000}{\text{Psig}} \div \text{Recorder Depth} \text{ Ft}$$

PG<sub>r</sub>

$$\text{Transmissibility (Kh/}\mu\text{)} = \frac{(162.6 \times Q \frac{20}{\text{RBDP}})}{M \frac{1500}{\text{PSI/Log Cycle}}}$$

$$= \frac{Kh/\mu}{2.17}$$

$$\text{Productive Capacity (Kh)} = (Kh/\mu \frac{2.17}{\text{Cps}}) \times \mu \frac{.02}{\text{Cps}}$$

$$= \frac{Kh}{.043}$$

$$\text{Permeability (K)} = (Kh \frac{.043}{\text{Md} \cdot \text{Ft}}) \div (h \frac{50}{\text{Ft}})$$

$$= \frac{K}{.001}$$

Damage Ratio (DR)

$$= \left[ \frac{(P_i \text{ PSI} - P_{wf} \text{ PSI})}{M \frac{\text{PSI}}{\text{Log Cycle}} \times \left( \log \frac{K \text{ Mds} \times T \text{ Mins}}{\phi \text{ dec} \times \mu \text{ Cps} \times C \times 10^6 \times r_w^2 \ln} \right) - 2.85} \right]$$

DR

$$\text{Estimated Damage Ratio (EDR)} = \left[ \frac{(P_i \text{ PSI} - P_{wf} \text{ PSI})}{M \frac{\text{PSI}}{\text{Log Cycle}} \times (\log T \text{ Min} + 2.65)} \right]$$

EDR

$$\text{Pressure Drop Due To Damage } (\Delta P_{da}) = \left( \frac{(P_i \text{ PSI} - P_{wf} \text{ PSI})}{DR} \right) - \left( \frac{(P_i \text{ PSI} - P_{wf} \text{ PSI})}{\text{DR}} \right)$$

$\Delta P_{da}$

$$\text{Damage No. (S')} = \left( \frac{\Delta P_{da} \text{ PSI}}{0.87M \frac{\text{PSI}}{\text{Log Cycle}}} \right)$$

S'

Effective Wellbore Radius

$$r_w' = r_w \text{ Ft} \times e^{-S'}$$

r<sub>w</sub>

$$\text{Productivity Index Actual (PI)}_a = \frac{Q \text{ (Bbls/day)}}{P_i \text{ PSI} - P_{wf} \text{ PSI}}$$

(PI)<sub>a</sub>

Bbls

$$\text{Productivity Index Damaged Removed (PI)}_i = \frac{Q \text{ (Bbls/day)}}{P_i \text{ PSI} - P_{wf} \text{ PSI} - \Delta P_{da} \text{ PSI}}$$

PI

Bbls

Radius of Investigation (r<sub>i</sub>)

$$r_i = \sqrt{\frac{K \text{ Mds} \times T^* \text{ Mins}}{57,600 \phi \text{ dec} \times \mu \text{ Cps} \times C \times 10^6}}$$

\*(Use flow time for R<sub>i</sub> of flow) (Use shut-in time for R<sub>i</sub> of shut-in)

r<sub>i</sub>

Distance to an Anomaly

Intercept Method) r<sub>a(int)</sub>

$$r_{a(int)} = 157 \times 10^{-3}$$

$$= \sqrt{\frac{K \text{ Mds} \times \Delta t_i \text{ Mins}}{\phi \text{ dec} \times \mu \text{ Cps} \times C \times 10^6}}$$

r<sub>a(int)</sub>

Distance to an Anomaly (Deviation Method) r<sub>a(dev)</sub>

$$r_{a(dev)} = 3.94 \times 10^{-3}$$

$$= \sqrt{\frac{K \text{ Mds} \times T \text{ Mins}}{\phi \text{ dec} \times \mu \text{ Cps} \times C \times 10^6 \times \left( \frac{T + \Delta t}{\Delta t} \right)_{dev}}}$$

r<sub>a(dev)</sub>

Potentiometric Surface (PS)

$$PS = (P_i \text{ PSI} \times 2.309) - \text{Elev. Ft} - \text{Recorder Depth Ft}$$

PS

Feet  
sea

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
INSPECTION RECORD

Operator Trigg Drilling Lease ML-27324  
Contractor 43-007-10753  
Well No. Keel Ranch State 1-16 Operation: Drilling \_\_\_\_\_  
Location SWNE Sec. 16 T. 12S R. 13E Workover \_\_\_\_\_  
Field Wildcat Completion \_\_\_\_\_  
County Carbon State UT Abandonment \_\_\_\_\_  
Producing P&W  
Other \_\_\_\_\_

Individual Well Inspection

General:

Well Sign X BOP NA Pollution control ✓ Marker NA  
Housekeeping ✓ Safety ✓ Surface use ✓ Location ✓

Remarks: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Lease and Facilities Inspection

Facilities inspected: Tank, meter, heater-treater, wellhead, pit  
Identification X Pollution control ✓  
Housekeeping ✓ Pits and ponds ✓  
Measurement facilities ✓ Water disposal ✓  
Storage and handling facilities ✓ Other \_\_\_\_\_

Remarks: Tank not sealed; Pit in clay/silt; chart not signed on  
or numbered.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Action: Install well sign.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name Wm. Brown Title Inspector Date 4-17-84

Use: ✓ for yes or satisfactory  
x for no or unsatisfactory  
NA for not applicable

April 5, 1984

# CHECKLIST FOR MICROFILM

COUNTY:

SECTION: TOWNSHIP: RANGE:

OPERATOR:

WELL NAME:

API NO. 43-677-1775

WELL STATUS: DR P&A POW

YEAR OF COMPLETION: 71

LOCATION: 800 FSL FNL 140 140 FEL FWL 1/4 1/4

LEASE STATUS: FED STATE FEE INDIAN

BOND STATUS: YES NO

APD ☐

PLAT MAP ☐

SPUD DATE ☒

WELL COMPLETION ☒

P&A REPORT AFTER ACTIVE COMPLETION ☐

FORMATION TOPS ☒

FIELD ☒

LOGS ☐

NOTES

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

TRIGG DRILLING COMPANY  
Chromatographic Gas Analysis Report  
Exhibit #8

Well Name: Keel Ranch #1-16  
Operator: Trigg Drilling Company  
Location: Section 16, T12S, R13E  
Carbon, Utah  
Date Sampled: 12-18-81  
Type of Sample: Spot

Comf.	Mole%
Propane	2.5380
1-Butane	0.5969
N-Butane	0.9489
I-Pentane	0.3507
N-Pentane	0.2649
Hexane +	0.2086
CO2	0.1979
Ethane	4.5971
Nitrogen	0.1803
✓Methane	90.1097

Totals 100.0

Specific Gravity: 0.643 Observed SP. GR. 0.639  
BTU/CU.FT: 1123.27 Observed BTU/CU.FT: 1127  
Heating Value @ 30 In. HG., 60 DEG F. WET

Data Source: Mountain Fuel Supply  
625 Connecticut Ave.  
P.O. Box 1129  
Rock Springs, WY 92901  
(307) 362-5611

RECEIVED

JUN 22 1982

DIVISION OF  
OIL, GAS & MINING

TRIGG DRILLING COMPANY  
Oil Production Summary  
Exhibit #9

KEEL RANCH UNIT  
SW, NE, Section 16, Township 12S, Range 13E  
Carbon County, Utah

<u>Month</u>	<u>Year</u>	<u>Days Produced</u>	<u>Barrels Of Oil</u>	<u>Avg. Daily Oil Prod. Barrels</u>
February	1982	4	5.0	1.25
March	1982	25	35.0	1.40
April	1982	21	2.5	0.12

During 50 days of production an average of 0.85 barrels of oil was produced.

Data Source: Report of Operations and Well Status Report  
Division of Oil and Gas Conservation  
State of Utah

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions  
verse 1'de)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

OCT 31 1985

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME Keel Ranch Unit
2. NAME OF OPERATOR TRIGG DRILLING COMPANY, INC.		8. FARM OR LEASE NAME Keel Ranch Unit
3. ADDRESS OF OPERATOR 410 17th Street, Suite 2100, Denver, Colorado 80202		9. WELL NO. 1-16
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1468'FEL, 1800'FNL SW/4 NE/4		10. FIELD AND POOL, OR WILDCAT Wildcat
API No. 4300710753 Entity No. 00660		11. SEC., T., R., M., OR B.K. AND SURVEY OR AREA Sec. 16-T12S-R13E
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6755'GR	12. COUNTY OR PARISH Carbon
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) CHANGE OF OPERATOR/OWNER

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Trigg Drilling Company, Inc. sold the Keel Ranch Unit 1-16 well. Effective October 1, 1985, the new owner and operator is: KAISER ENERGY, INC.

410 17th Street, Suite 2100  
Denver, Colorado 80202  
(303) 893-1044

Attention: Jerald Sluder, Staff Prod. Engineer  
Diane F. Miller, Prod. Technician

cc: Utah Natural Resources, Oil, Gas & Mining

dfm

18. I hereby certify that the foregoing is true and correct

SIGNED

*Jack E. Trigg*  
Jack E. Trigg

TITLE Vice President

DATE October 29, 1985

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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(Other instructions  
verse side)

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Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐
2. NAME OF OPERATOR  
KAISER ENERGY, INC.
3. ADDRESS OF OPERATOR  
410 17th Street, Suite 2100, Denver, Colorado 80202
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
1468'FEL, 1800'FNL SW/4 NE/4

- API No. 4300710753 Entity No. 00660
14. PERMIT NO. 43-007-10753 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6755'GR

5. LEASE DESIGNATION AND SERIAL NO.  
ML - ~~1000~~ 27324
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME  
KEEL RANCH UNIT
8. FARM OR LEASE NAME  
KEEL RANCH UNIT
9. WELL NO.  
1-16
10. FIELD AND POOL, OR WILDCAT  
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 16-T12S-R13E
12. COUNTY OR PARISH  
Carbon
13. STATE  
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

See attached well data sheet for current well configuration. We propose to lay down packer and tubing, set 50 sacks of cement on top of cast-iron bridge plug at 8,242 feet in 5 1/2 inch casing and set 25 sacks of cement in 5 1/2 inch casing at surface. No casing to be pulled. Remove wellhead and install dry hole marker.

Attachment

RECEIVED

AUG 07 1986

DIVISION OF OIL  
GAS & MINING

cc: Utah Natural Resources, Oil, Gas & Mining

dfm

18. I hereby certify that the foregoing is true and correct

SIGNED

Jerald Sluder

TITLE Staff Petroleum Engineer

DATE August 5, 1986

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

1. See attached page for modification to procedure.

TITLE

DATE

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 8-8-86

BY: John R. [Signature] Department or Agency of the  
jurisdiction.

## WELL DATA SHEET

RECEIVED

AUG 07 1986

OPERATOR : KAISER ENERGY, INC.

WELL : KEEL RANCH 1-16

FIELD : KEEL RANCH UNIT

COUNTY : CARBON

STATE : UTAH

DIVISION OF OIL  
GAS & MINING

LOCATION : SEC. 16-1125-R13E

ELEVATION : 6,744' KB

6,755' BL

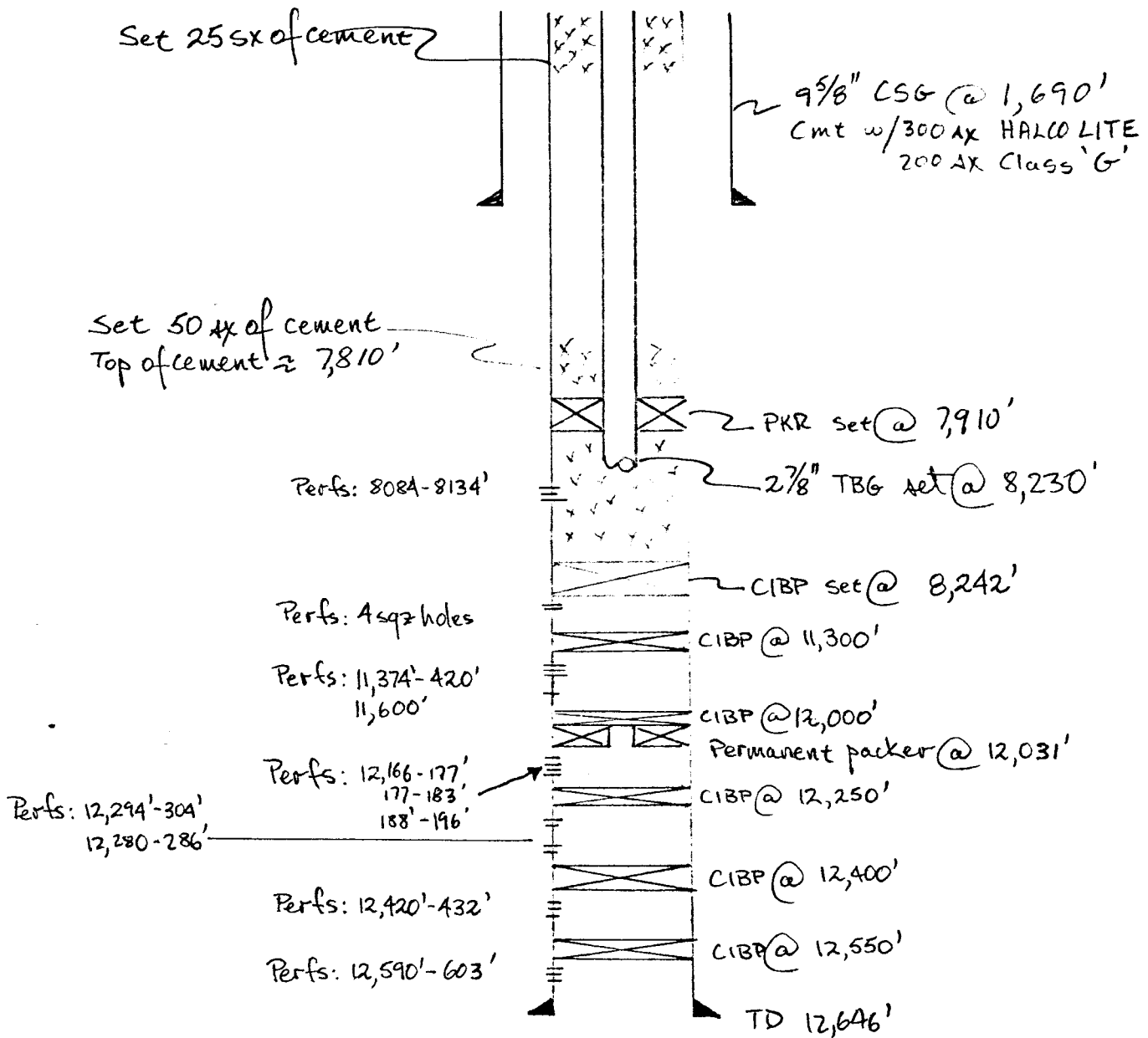
SPUD DATE : 2/28/81

COMP. DATE : 10/23/81

I D : 12.646'

P B I D : 8.242'

FORMATION : MANCOS





CONDITIONS OF APPROVAL  
PLUGGING AND ABANDONMENT PROCEDURE

Keel Ranch Unit Well No. 1-16  
Sec. 16, T.12S, R.13E  
Carbon County, Utah

1. A 100' cement plug shall be placed at the surface in the 5-1/2" and 9-5/8" casing annulus. If the cement cannot be squeezed or spotted in this interval, the operator may perforate the 5-1/2" casing at 1740', establish circulation down 5-1/2" casing and up casing annulus, and pump adequate cement to place a 100' plug inside and outside 5-1/2" casing in the interval 1740'-1640'.
2. A surface reclamation plan shall be submitted to and approved by the Utah Division of State Lands and Forestry.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Form 3160-6  
(November 1983)  
(Formerly 9-329)

MONTHLY REPORT  
OF  
OPERATIONS

Lease No. \_\_\_\_\_  
Communitization Agreement No. 101529  
Field Name \_\_\_\_\_  
Unit Name Keel Ranch Unit  
Participating Area \_\_\_\_\_  
County Carbon State Utah  
Operator KAISER ENERGY, INC.  
☐ Amended Report

The following is a correct report of operations and production (including status of all unplugged wells) for the month of August, 1986

(See Reverse of Form for Instructions)

This report is required by law (30 U.S.C. 189, 30 U.S.C. 359, 25 U.S.C. 396d), regulation (43 CFR 3162.4-3), and the terms of the lease. Failure to report can result in the assessment of liquidated damages, (43 CFR 3160), penalties, shutting down operations, or basis for recommendation to cancel the lease and forfeit the bond (43 CFR 3160).

Well No.	Sec. & 1/4 of 1/4	TWP	RNG	Well Status	Days Prod.	*Barrels of Oil	*MCF of Gas	*Barrels of Water	Remarks
Keel Ranch 1-16	Sec. 16 SW NE	12S	13E	TA	None	None	None	None	Well shut in, effective 1/1/86. WO P&A.

\*If none, so state.

DISPOSITION OF PRODUCTION (Lease, Participating Area, or Communitized Area basis)

	Oil & Condensate (BBLs)	Gas (MCF)	Water (BBLs)
*On hand, Start of Month	46.7	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Produced	None	None	None
*Sold	None	None	XXXXXXXXXXXXXXXXXX
*Spilled or Lost	None	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*Flared or Vented	XXXXXXXXXXXXXXXXXX	None	XXXXXXXXXXXXXXXXXX
*Used on Lease	None	None	XXXXXXXXXXXXXXXXXX
*Injected	None	None	None
*Surface Pits	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX	None
*Other (Identify)	None	None	None
*On hand, End of Month	46.7	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXX
*API Gravity/BTU Content	None	None	XXXXXXXXXXXXXXXXXX
Authorized Signature: <u>Diane J. Miller</u>	Address: <u>410 17th St., Suite 2100, Denver, CO 80202</u>		
Title: <u>Production Technician</u>	Page <u>1</u> of <u>1</u>		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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(Other instructions  
reverse side)

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Form approved  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	7. UNIT AGREEMENT NAME KEEL RANCH UNIT
2. NAME OF OPERATOR KAISER ENERGY, INC.	8. FARM OR LEASE NAME KEEL RANCH UNIT
3. ADDRESS OF OPERATOR 410 17th Street, Suite 2100, Denver, Colorado 80202	9. WELL NO. 1-16
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1468'FEL, 1800'FNL SW/4 NE/4	10. FIELD AND POOL, OR WILDCAT Wildcat
API No. 4300710753 Entity No. 00660	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 16-T12S-R13E
14. PERMIT NO. 43.007.10753	12. COUNTY OR PARISH Carbon
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6755'GR	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well has been plugged and abandoned in accordance with the following procedure:

10/13/86 MIRU Rippy, Inc.'s service rig. Blow dwn well.  
10/14/86 POOH with 3/4 of tbg string.  
10/15/86 Finish POOH w/tbg. RIH w/tbg open ended & set 50 sx cmt plug @ 8,242'. Fill hole w/2% KCL wtr. POOH w/tbg.  
10/16/86 Set 25 sx cmt plug @ surf. Cut off WH & set 30 sx cmt plug w/1" pipe @ 94' btw 5 1/2" csg & 9-5/8" csg. Weld plate on 9-5/8" csg below plow lvl & erect dry hole marker. Reclaim & reseed loc.

Rippy, Inc.'s cementing affidavit dated 10/16/86 as cement verification is attached.

RECEIVED  
NOV 12 1986

cc's: Utah Natural Resources, Oil, Gas & Mining  
Union Oil of Calif., Midland, TX

DIVISION OF  
OIL, GAS & MINING

dfm

18. I hereby certify that the foregoing is true and correct

SIGNED Jerald Sluder  
Jerald Sluder

TITLE Staff Petroleum Engineer

DATE November 10, 1986

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

\*See Instructions on Reverse Side

DATE 11-13-86  
BY John R. Doye

# RIPPY, INC.

Rippy Sales & Service  
P.O.Box 60065  
Grand Junction, Co. 81506

RECEIVED

NOV 5 1986

DATE 10/16/86

## CEMENTING AFFIDAVIT

### PULLING & PLUGGING REPORT

COMPANY Kaiser Energy

LEASE Keel Ranch Unit WELL NO. 1-16

SECTION 16 TOWNSHIP 12 S RANGE 13 E UNIT \_\_\_\_\_ COUNTY Carbon, Utah

None FT. OF \_\_\_\_\_ CASING RECOVERED

\_\_\_\_\_ FT. OF \_\_\_\_\_ CASING RECOVERED

### PLUGS SET

1. 50 SAX CEMENT SET AT 8242 FT. TO 7752 FT.
2. 25 SAX CEMENT SET AT surface FT. TO \_\_\_\_\_ FT.
3. 30 SAX CEMENT SET AT surface between 5 1/2" & 9 5/8" FT. TO \_\_\_\_\_ FT.
4. Cut off well head & weld plate on & erect regulation marker. SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.
5. Clean location SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.
6. \_\_\_\_\_ SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.
7. \_\_\_\_\_ SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.
8. \_\_\_\_\_ SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.
9. \_\_\_\_\_ SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.
10. \_\_\_\_\_ SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.
11. \_\_\_\_\_ SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.
12. \_\_\_\_\_ SAX CEMENT SET AT \_\_\_\_\_ FT. TO \_\_\_\_\_ FT.

RIPPY, INC.

SIGNED W. J. Rippy Jr